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# LICCON Error Code Manual

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**LR-1750**

**074713**

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## LICCON ERROR CODE (LEC)

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Reference	Identification number	Illustration number
Electrics Superstructure	2	4096
Electrics Carrier	/tmp/zfile	26.05.2003
Error list	-283403	9128-700.00.00.000.011

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Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
000001	ZE 0: system error OS-HC11 (observe parameters) initialising error processor-register erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
000002	ZE 0: system error OS-HC11 (observe parameters) initialising error test total in EPROM/FLASH erroneous no crane operation possible check program memory card or ZE			E	2
000006	ZE 0: system error OS-HC11 (observe parameters) initialising error RAM erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
000007	ZE 0: system error OS-HC11 (observe parameters) UART erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
000010	ZE 0: system error OS-HC11 (observe parameters) system routine inaccessible entry in error memory, all crane movements will be stopped			E	2
000011	ZE 0: system error OS-HC11 (observe parameters) ZE-watchdog expired entry in error memory, all crane movements will be stopped check ZE			E	2
000012	ZE 0: system error OS-HC11 (observe parameters) type-identification in EPROM erroneous entry in error memory, no crane operation possible check program memory card			E	2
000013	ZE 0: system error OS-HC11 (observe parameters) Test sum in FLASH erroneous entry in error memory, all crane movements will be stopped check program memory card			E	2
000014	ZE 0: system error OS-HC11 (observe parameters) program already running entry in error memory, all crane movements will be stopped			E	2
000015	ZE 0: system error OS-HC11 (observe parameters) program not available entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
000016	ZE 0: system error OS-HC11 (observe parameters) system-, driver-watchdog expired entry in error memory, all crane movements will be stopped			E	2
000017	ZE 0: system error OS-HC11 (observe parameters) total of CPU-time distribution too great entry in error memory, all crane movements will be stopped			E	2
000018	ZE 0: system error OS-HC11 (observe parameters) arithmetic overflow (16 Bit) entry in error memory, all crane movements will be stopped			E	2
000019	ZE 0: system error OS-HC11 (observe parameters) division through zero (16 Bit) entry in error memory, all crane movements will be stopped			E	2
000020	ZE 0: system error OS-HC11 (observe parameters) task-watchdog expired entry in error memory, all crane movements will be stopped			E	2
000021	ZE 0: system error OS-HC11 (observe parameters) illegal opcode trap entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
000022	ZE 0: system error OS-HC11 (observe parameters) task inactive entry in error memory, all crane movements will be stopped			E	2
000023	ZE 0: system error OS-HC11 (observe parameters) program incapable of running (type identification) entry in error memory, all crane movements will be stopped			E	2
000024	ZE 0: system error OS-HC11 (observe parameters) task already used entry in error memory, all crane movements will be stopped			E	2
000025	ZE 0: system error OS-HC11 (observe parameters) realtime-module already used entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
000026	ZE 0: system error OS-HC11 (observe parameters) regulator-module already used entry in error memory, all crane movements will be stopped			E	2
000030	ZE 0: system error OS-HC11 (observe parameters) unacceptable bank address entry in error memory, all crane movements will be stopped			E	2
000041	ZE 0: system error OS-HC11 (observe parameters) arithmetic error entry in error memory, all crane movements will be stopped			E	2
000044	ZE 0: system error OS-HC11 (observe parameters) output parameter without effect, from inactive output entry in error memory, all crane movements will be stopped			E	2
000045	ZE 0: system error OS-HC11 (observe parameters) entry parameter undefined, from inactive input entry in error memory, all crane movements will be stopped			E	2
000046	ZE 0: system error OS-HC11 (observe parameters) impermissible regulator parameter entry in error memory, all crane movements will be stopped			E	2
000047	ZE 0: system error OS-HC11 (observe parameters) realtime-control block not available entry in error memory, all crane movements will be stopped			E	2
000048	ZE 0: system error OS-HC11 (observe parameters) realtime-control block inactive entry in error memory, all crane movements will be stopped			E	2
000049	ZE 0: system error OS-HC11 (observe parameters) urgent modul, ZE not available entry in error memory, no crane operation possible check ZE			E	2
000050	ZE 0: system error OS-HC11 (observe parameters) file not available entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
000051	ZE 0: system error OS-HC11 (observe parameters) file already opened entry in error memory, all crane movements will be stopped			E	2
000052	ZE 0: system error OS-HC11 (observe parameters) file not open on close entry in error memory, all crane movements will be stopped			E	2
000053	ZE 0: system error OS-HC11 (observe parameters) system mask not available entry in error memory, all crane movements will be stopped			E	2
000054	ZE 0: system error OS-HC11 (observe parameters) system text not available entry in error memory, all crane movements will be stopped			E	2
000055	ZE 0: system error OS-HC11 (observe parameters) symbol not available entry in error memory, all crane movements will be stopped			E	2
000056	ZE 0: system error OS-HC11 (observe parameters) invalid mark in symbol entry in error memory, all crane movements will be stopped			E	2
000057	ZE 0: system error OS-HC11 (observe parameters) default load chart missing entry in error memory, all crane movements will be stopped			E	2
000058	ZE 0: system error OS-HC11 (observe parameters) amplifier erroneous or return power feed entry in error memory, all crane movements will be stopped check wiring			E	2
000059	ZE 0: system error OS-HC11 (observe parameters) subroutine not reentrant entry in error memory, all crane movements will be stopped			E	2
000060	ZE 0: system error OS-HC11 (observe parameters) transmission error SCI entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
000061	ZE 0: system error OS-HC11 (observe parameters) SCI-BREAK entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
000062	ZE 0: system error OS-HC11 (observe parameters) SCI not connected entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
000063	ZE 0: system error OS-HC11 (observe parameters) monitor error in operation entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
000065	ZE 0: system error OS-HC11 (observe parameters) impermissible bus address entry in error memory, all crane movements will be stopped			E	2
000066	ZE 0: system error OS-HC11 (observe parameters) ADC working outside the permissible tolerance entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
000067	ZE 0: system error OS-HC11 (observe parameters) arithmetic processor not available entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
000068	ZE 0: system error OS-HC11 (observe parameters) impermissible interrupt entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
000070	ZE 0: system error OS-HC11 (observe parameters) various structure versions entry in error memory, no crane operation possible			E	2
000071	ZE 0: system error OS-HC11 (observe parameters) Structure file missing or faulty entry in error memory, no crane operation possible			E	2
000072	ZE 0: system error OS-HC11 (observe parameters) structure entry senseless entry in error memory, no crane operation possible			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
000073	ZE 0: system error OS-HC11 (observe parameters) interpreter error entry in error memory, all crane movements will be stopped			E	2
000074	ZE 0: system error OS-HC11 (observe parameters) transformation ASCII to BIN erroneous entry in error memory, all crane movements will be stopped			E	2
000075	ZE 0: system error OS-HC11 (observe parameters) SPI-error entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
000076	ZE 0: system error OS-HC11 (observe parameters) incorrectly inserted power unit entry in error memory, all crane movements will be stopped check memory card in power supply unit			E	2
000077	ZE 0: system error OS-HC11 (observe parameters) BAF-call-up erroneous entry in error memory, all crane movements will be stopped			E	2
000078	ZE 0: system error OS-HC11 (observe parameters) impermissible parameter entry in error memory, all crane movements will be stopped			E	2
000079	ZE 0: system error OS-HC11 (observe parameters) no right of access entry in error memory, all crane movements will be stopped			E	2
000080	ZE 0: system error OS-HC11 (observe parameters) Fatal internal error entry in error memory, all crane movements will be stopped			E	2
000081	ZE 0: system error OS-HC11 (observe parameters) stack overflow entry in error memory, all crane movements will be stopped			E	2
000082	ZE 0: system error OS-HC11 (observe parameters) hardware-watchdog erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
000094	ZE 0: system error OS-HC11 (observe parameters) transmission error parallel bus entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
000095	ZE 0: system error OS-HC11 (observe parameters) DMA-error entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
000099	ZE 0: system error OS-HC11 (observe parameters) DSP0 erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
002001	ZE 0: system error OS-TMS initialising error processor-register erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
002002	ZE 0: system error OS-TMS initialising error test total in EPROM/FLASH erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
002006	ZE 0: system error OS-TMS initialising error RAM erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
002007	ZE 0: system error OS-TMS UART erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
002020	ZE 0: system error OS-TMS task-watchdog expired entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
002021	ZE 0: system error OS-TMS illegal opcode trap entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
002082	ZE 0: system error OS-TMS hardware-watchdog erroneous entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
010012	ZE 0: output 0 short circuit to ground	X70:16		E	1
010013	ZE 0: output 0 open signal circuits	X70:16		E	1
010014	ZE 0: output 0 short circuit to supply voltage	X70:16		E	1
010054	ZE 0: output 0 short circuit to supply voltage	X70:16		E	1
010058	ZE 0: output 0 positive switching transistor: disruption	X70:16		E	1
010070	ZE 0: output 0 measuring system defect no crane operation possible entry in error list	X70:16		E	1
010071	ZE 0: output 0 short circuit to ground or transistor defect	X70:16		E	1
010072	ZE 0: output 0 outside source feeding	X70:16		E	1
010073	ZE 0: output 0 open circuit or short circuit to supply voltage/ground	X70:16		E	1
010112	ZE 0: output 1 short circuit to ground	X70:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
010113	ZE 0: output 1 open signal circuits	X70:17		E	1
010114	ZE 0: output 1 short circuit to supply voltage	X70:17		E	1
010154	ZE 0: output 1 short circuit to supply voltage	X70:17		E	1
010158	ZE 0: output 1 positive switching transistor: disruption	X70:17		E	1
010170	ZE 0: output 1 measuring system defect no crane operation possible entry in error list	X70:17		E	1
010171	ZE 0: output 1 short circuit to ground or transistor defect	X70:17		E	1
010172	ZE 0: output 1 outside source feeding	X70:17		E	1
010173	ZE 0: output 1 open circuit or short circuit to supply voltage/ground	X70:17		E	1
010212	ZE 0: output 2 short circuit to ground	X70:18		E	1
010213	ZE 0: output 2 open signal circuits	X70:18		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
010214	ZE 0: output 2 short circuit to supply voltage	X70:18		E	1
010254	ZE 0: output 2 short circuit to supply voltage	X70:18		E	1
010258	ZE 0: output 2 positive switching transistor: disruption	X70:18		E	1
010270	ZE 0: output 2 measuring system defect no crane operation possible entry in error list	X70:18		E	1
010271	ZE 0: output 2 short circuit to ground or transistor defect	X70:18		E	1
010272	ZE 0: output 2 outside source feeding	X70:18		E	1
010273	ZE 0: output 2 open circuit or short circuit to supply voltage/ground	X70:18		E	1
010312	ZE 0: output 3 short circuit to ground	X70:19		E	1
010313	ZE 0: output 3 open signal circuits	X70:19		E	1
010314	ZE 0: output 3 short circuit to supply voltage	X70:19		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
010354	ZE 0: output 3 short circuit to supply voltage	X70:19		E	1
010358	ZE 0: output 3 positive switching transistor: disruption	X70:19		E	1
010370	ZE 0: output 3 measuring system defect no crane operation possible entry in error list	X70:19		E	1
010371	ZE 0: output 3 short circuit to ground or transistor defect	X70:19		E	1
010372	ZE 0: output 3 outside source feeding	X70:19		E	1
010373	ZE 0: output 3 open circuit or short circuit to supply voltage/ground	X70:19		E	1
010412	ZE 0: output 4 short circuit to ground	X70:20		E	1
010413	ZE 0: output 4 open signal circuits	X70:20		E	1
010414	ZE 0: output 4 short circuit to supply voltage	X70:20		E	1
010454	ZE 0: output 4 short circuit to supply voltage	X70:20		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
010458	ZE 0: output 4 positive switching transistor: disruption	X70:20		E	1
010460	ZE 0: output 4 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X70:20		E	1
010462	ZE 0: output 4 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X70:20		E	1
010463	ZE 0: output 4 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X70:20		E	1
010470	ZE 0: output 4 measuring system defect no crane operation possible entry in error list	X70:20		E	1
010471	ZE 0: output 4 short circuit to ground or transistor defect	X70:20		E	1
010472	ZE 0: output 4 outside source feeding	X70:20		E	1
010473	ZE 0: output 4 open circuit or short circuit to supply voltage/ground	X70:20		E	1
010512	ZE 0: output 5 short circuit to ground	X70:21		E	1
010513	ZE 0: output 5 open signal circuits	X70:21		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
010514	ZE 0: output 5 short circuit to supply voltage	X70:21		E	1
010554	ZE 0: output 5 short circuit to supply voltage	X70:21		E	1
010558	ZE 0: output 5 positive switching transistor: disruption	X70:21		E	1
010560	ZE 0: output 5 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X70:21		E	1
010562	ZE 0: output 5 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X70:21		E	1
010563	ZE 0: output 5 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X70:21		E	1
010570	ZE 0: output 5 measuring system defect no crane operation possible entry in error list	X70:21		E	1
010571	ZE 0: output 5 short circuit to ground or transistor defect	X70:21		E	1
010572	ZE 0: output 5 outside source feeding	X70:21		E	1
010573	ZE 0: output 5 open circuit or short circuit to supply voltage/ground	X70:21		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
010612	ZE 0: output 6 short circuit to ground	X70:22		E	1
010613	ZE 0: output 6 open signal circuits	X70:22		E	1
010614	ZE 0: output 6 short circuit to supply voltage	X70:22		E	1
010654	ZE 0: output 6 short circuit to supply voltage	X70:22		E	1
010658	ZE 0: output 6 positive switching transistor: disruption	X70:22		E	1
010660	ZE 0: output 6 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X70:22		E	1
010662	ZE 0: output 6 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X70:22		E	1
010663	ZE 0: output 6 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X70:22		E	1
010670	ZE 0: output 6 measuring system defect no crane operation possible entry in error list	X70:22		E	1
010671	ZE 0: output 6 short circuit to ground or transistor defect	X70:22		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
010672	ZE 0: output 6 outside source feeding	X70:22		E	1
010673	ZE 0: output 6 open circuit or short circuit to supply voltage/ground	X70:22		E	1
010712	ZE 0: output 7 short circuit to ground	X70:23		E	1
010713	ZE 0: output 7 open signal circuits	X70:23		E	1
010714	ZE 0: output 7 short circuit to supply voltage	X70:23		E	1
010754	ZE 0: output 7 short circuit to supply voltage	X70:23		E	1
010758	ZE 0: output 7 positive switching transistor: disruption	X70:23		E	1
010760	ZE 0: output 7 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X70:23		E	1
010762	ZE 0: output 7 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X70:23		E	1
010763	ZE 0: output 7 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X70:23		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
010770	ZE 0: output 7 measuring system defect no crane operation possible entry in error list	X70:23		E	1
010771	ZE 0: output 7 short circuit to ground or transistor defect	X70:23		E	1
010772	ZE 0: output 7 outside source feeding	X70:23		E	1
010773	ZE 0: output 7 open circuit or short circuit to supply voltage/ground	X70:23		E	1
014959	ZE 0: all output supply voltage missing	X70		E	1
015059	ZE 0: output group 0 supply voltage missing	X70:12		E	1
015159	ZE 0: output group 1 supply voltage missing	X70:24		E	1
015259	ZE 0: output group 2 supply voltage missing	X70:25		E	1
015359	ZE 0: output group 3 supply voltage missing	X70:13		E	1
020004	ZE 0: LSB participant address 0 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
020005	ZE 0: LSB participant address 0 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635:z14/z16		E	1
020018	ZE 0: LSB participant address 0 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635:z14/z16		E	0
020050	ZE 0: LSB participant address 0 reports an incorrect sensor type  Check Bus configuration in LSB test system, remove faulty / incorrect users from Bus	X635:z14/z16		E	1
020050	ZE 0: LSB participant address 0 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635:z14/z16		E	2
020051	ZE 0: LSB participant address 0 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635:z14/z16		E	2
020053	ZE 0: LSB participant address 0 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635:z14/z16		E	1
020054	ZE 0: LSB participant address 0 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635:z14/z16		E	2
020064	ZE 0: LSB participant address 0 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635:z14/z16		E	1
020065	ZE 0: LSB participant address 0 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635:z14/z16		E	2
020066	ZE 0: LSB participant address 0 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
020067	ZE 0: LSB participant address 0 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635:z14/z16		E	1
020104	ZE 0: LSB participant address 1 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635:z14/z16		E	1
020105	ZE 0: LSB participant address 1 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635:z14/z16		E	1
020118	ZE 0: LSB participant address 1 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635:z14/z16		E	0
020150	ZE 0: LSB participant address 1 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635:z14/z16		E	2
020151	ZE 0: LSB participant address 1 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635:z14/z16		E	2
020153	ZE 0: LSB participant address 1 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635:z14/z16		E	1
020154	ZE 0: LSB participant address 1 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635:z14/z16		E	2
020164	ZE 0: LSB participant address 1 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635:z14/z16		E	1
020165	ZE 0: LSB participant address 1 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
020166	ZE 0: LSB participant address 1 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635:z14/z16		E	2
020167	ZE 0: LSB participant address 1 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635:z14/z16		E	1
020904	ZE 0: LSB participant address 9 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635:z14/z16		E	1
020905	ZE 0: LSB participant address 9 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635:z14/z16		E	1
020918	ZE 0: LSB participant address 9 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635:z14/z16		E	0
020950	ZE 0: LSB participant address 9 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635:z14/z16		E	2
020951	ZE 0: LSB participant address 9 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635:z14/z16		E	2
020953	ZE 0: LSB participant address 9 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635:z14/z16		E	1
020954	ZE 0: LSB participant address 9 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635:z14/z16		E	2
020964	ZE 0: LSB participant address 9 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
020965	ZE 0: LSB participant address 9 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635:z14/z16		E	2
020966	ZE 0: LSB participant address 9 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635:z14/z16		E	2
020967	ZE 0: LSB participant address 9 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635:z14/z16		E	1
022304	ZE 0: LSB participant address 23 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635:z14/z16		E	1
022305	ZE 0: LSB participant address 23 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635:z14/z16		E	1
022318	ZE 0: LSB participant address 23 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635:z14/z16		E	0
022350	ZE 0: LSB participant address 23 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635:z14/z16		E	2
022351	ZE 0: LSB participant address 23 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635:z14/z16		E	2
022353	ZE 0: LSB participant address 23 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635:z14/z16		E	1
022354	ZE 0: LSB participant address 23 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
022364	ZE 0: LSB participant address 23 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635:z14/z16		E	1
022365	ZE 0: LSB participant address 23 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635:z14/z16		E	2
022366	ZE 0: LSB participant address 23 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635:z14/z16		E	2
022367	ZE 0: LSB participant address 23 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635:z14/z16		E	1
023252	ZE 0: Control data transfer LSB has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X635:z14/z16		E	0
023255	ZE 0: Control data transfer LSB Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635:z14/z16		E	2
023256	ZE 0: Control data transfer LSB Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635:z14/z16		E	2
023257	ZE 0: Control data transfer LSB has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X635:z14/z16		E	1
023258	ZE 0: Control data transfer LSB recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X635:z14/z16		E	0
023259	ZE 0: Control data transfer LSB recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X635:z14/z16		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
023260	ZE 0: Control data transfer LSB driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X635:z14/z16		E	2
023261	ZE 0: Control data transfer LSB driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malfunc. error will be eliminated by system itself otherwise new Software necessary for error elimination	X635:z14/z16		E	2
023262	ZE 0: Control data transfer LSB Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X635:z14/z16		E	2
024814	ZE 0: input 0 short circuit to supply voltage report of error, shut-down through application Check sensor line for short-circuit, for faulty sensors by pulling out sensor, connection to input	X635:d2		E	1
024817	ZE 0: input 0 voltage below required value error report only Check sensor and supply line, replace faulty sensor	X635:d2		E	1
024856	ZE 0: input 0 open circuit or short circuit to ground report of error, shut-down through application Check supply voltage, input LICCON, sensor line for interruption, for faulty sensors by pulling out G	X635:d2		E	1
024914	ZE 0: input 1 short circuit to supply voltage report of error, shut-down through application Check sensor line for short-circuit, for faulty sensors by pulling out sensor, connection to input	X635:d4		E	1
024917	ZE 0: input 1 voltage below required value error report only Check sensor and supply line, replace faulty sensor	X635:d4		E	1
024956	ZE 0: input 1 open circuit or short circuit to ground report of error, shut-down through application Check supply voltage, input LICCON, sensor line for interruption, for faulty sensors by pulling out G	X635:d4		E	1
026114	ZE 0: input 13 short circuit to supply voltage report of error, shut-down through application Check sensor line for short-circuit, for faulty sensors by pulling out sensor, connection to input	X635:d28		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
026156	ZE 0: input 13 open circuit or short circuit to ground report of error, shut-down through application Check supply voltage, input LICCON, sensor line for interruption, for faulty sensors by pulling out G	X635:d28		E	1
030000	ZE 0: LMB crane not commissioned or memory error error report only program commissioning data according to commissioning report through after-sales service			B	1
030005	ZE 0: LMB winch 1 not regulated, hook course indicator erroneous imprecise winch control and incorrect hook course indication for winch 1 Start up adjustment switch for range of lift display for winch 1 in lowering direction			E	1
030006	ZE 0: LMB winch 2 not regulated, hook course indicator erroneous imprecise winch control and incorrect hook course indication of winch 2 trigger adjustment switch for hook course indication of winch 2 through lowering			E	1
030016	ZE 0: LMB Pressure transducer overtop guard cyl main boom faulty/not present Load display too great Check sensor and supply line, replace faulty sensor			E	1
030030	ZE 0: LMB One signal draw-meas. conn plate for load weigh faulty/not present Load display if necessary imprecise Check sensor and supply line, replace faulty sensor			E	1
030031	ZE 0: LMB One signal press. tran. for load weigh mast stub faulty/not present Load display if necessary imprecise Check sensor and supply line, replace faulty sensor			E	1
030032	ZE 0: LMB One angle sensor derrick faulty/not present Load display if necessary imprecise Check sensor and supply line, replace faulty sensor			E	1
030040	ZE 0: LMB no standard table defined for this crane program stop Install new program memory card with corrected tables			B	3
030041	ZE 0: LMB all data for actual operation mode not available program stop Install new program memory card with corrected tables			B	3

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
030042	ZE 0: LMB no valid control word in this table program stop Install new program memory card with corrected tables			B	3
030050	ZE 0: LMB no load chart displayed acoustical signal on actuation of OK-key, no modification in operation program select valid load chart through short-code or function keys F2-F6 and confirm with ENTER			B	1
030051	ZE 0: LMB external information (e.g. slewing platform bolting) missing load chart cannot be entered through OK-key activate slewing platform lock, if necessary check connection to end of stroke switch, or select another load chart			B	1
030052	ZE 0: LMB re-fitting with load more than 0.5t and utilization larger 20% load chart cannot be entered through OK-key put load to ground or switch crane off and on again			B	1
030053	ZE 0: LMB MAN-/AUTO-change-over blocked, unbolt cylinder/tele selected, MS switch-over on manual operation prevented as cylinder or tele not pinned approach pre-selected telescoping target in automatic operation mode (bolt cylinder or tele)			B	1
030054	ZE 0: LMB no new telescoping objective, cylinder/tele unbolting selected, MS modification of telesc. objective prevented- cylinder/tele bolting switch not "0" set or MS "telescoping switch over switch to "0" position and release MS "telescoping"			B	1
030064	ZE 0: LMB measured overall torque smaller than half torque without charge LMB-Stop: Load torque increasing movements cannot be affected move boom out of danger zone or check sensor (angle-, pressure-, length),if load or radius indication incorrect			B	2
030065	ZE 0: LMB computation-bound program part will no longer run LMB-Stop: Load torque increasing movements cannot be affected on starting, the set-up equipment program key was pressed			B	2
030079	ZE 0: LMB STOP, adjusted op. mode and crane configuration not identical LMB-Stop: Load torque increasing movements cannot be affected set up crane according to selected operation mode			B	2
030080	ZE 0: LMB Wind speed transmitter main boom faulty/not present error report only Connect sensor, or check sensor or supply line			B	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
030081	ZE 0: LMB Wind speed transmitter accessories faulty/not present error report only Connect sensor, or check sensor or supply line			B	1
030082	ZE 0: LMB Wind speed transmitter 3 main boom faulty/not present error report only Connect sensor, or check sensor or supply line			B	1
030083	ZE 0: LMB Wind speed transmitter 3 accessories faulty/not present error report only Connect sensor, or check sensor or supply line			B	1
030084	ZE 0: LMB Wind speed transmitter 1A reports internal error error report only replace sensor immediately			E	1
030085	ZE 0: LMB Wind speed transmitter 1B reports internal error error report only replace sensor immediately			E	1
030086	ZE 0: LMB Wind speed transmitter 2A reports internal error error report only replace sensor immediately			E	1
030087	ZE 0: LMB Wind speed transmitter 2B reports internal error error report only replace sensor immediately			E	1
030088	ZE 0: LMB Wind speed transmitter 3 main boom reports internal error error report only replace sensor immediately			E	1
030089	ZE 0: LMB Wind speed transmitter 3 accessory reports internal error error report only replace sensor immediately			E	1
030090	ZE 0: LMB Hoist limit switch 1A reports internal error error report only replace sensor immediately			E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
030091	ZE 0: LMB Hoist limit switch 1B reports internal error error report only replace sensor immediately			E	1
030092	ZE 0: LMB Hoist limit switch 2A reports internal error error report only replace sensor immediately			E	1
030093	ZE 0: LMB Hoist limit switch 2B reports internal error error report only replace sensor immediately			E	1
030094	ZE 0: LMB Hoist limit switch 3 main boom reports internal error error report only replace sensor immediately			E	1
030095	ZE 0: LMB Hoist limit switch 3 accessory reports internal error error report only replace sensor immediately			E	1
030096	ZE 0: LMB Jib, flap and overtopping guard struts in danger of colliding report of error, shut-down through application Luff down jib			B	1
030097	ZE 0: LMB Load utilisat >95% and dropping of load when luffing up main boom report of error, shut-down through application Reduce utilisation, if necessary luff up via jib			B	1
030098	ZE 0: LMB 2 front supports are heavily loaded, danger of tipping to the rear error report only Load supports evenly			B	1
030099	ZE 0: LMB 2 supports are heavily loaded, danger of tipping error report only Load supports evenly			B	1
030100	ZE 0: LMB STOP, main boom not mounted LMB-Stop: Load torque increasing movements cannot be affected Mount missing assembly			B	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
030101	ZE 0: LMB STOP, jib not mounted LMB-Stop: Load torque increasing movements cannot be affected Mount missing assembly			B	2
030102	ZE 0: LMB STOP, derrick not mounted LMB-Stop: Load torque increasing movements cannot be affected Mount missing assembly			B	2
030103	ZE 0: LMB STOP, counterweight carriage not mounted LMB-Stop: Load torque increasing movements cannot be affected Mount missing assembly			B	2
030104	ZE 0: LMB STOP, suspended counterweight not mounted LMB-Stop: Load torque increasing movements cannot be affected Mount missing assembly			B	2
030105	ZE 0: LMB Main boom mounted?, pilot contact<>Bus sensor, condition faulty LMB-Stop: Load torque increasing movements cannot be affected Check pilot contact signals and active LSB sensor of mounted assemblies			E	2
030106	ZE 0: LMB Jib mounted?, pilot contact<>Bus sensor, condition faulty LMB-Stop: Load torque increasing movements cannot be affected Check pilot contact signals and active LSB sensor of mounted assemblies			E	2
030107	ZE 0: LMB Derrick mounted?, pilot contact<>Bus sensor, condition faulty LMB-Stop: Load torque increasing movements cannot be affected Check pilot contact signals and active LSB sensor of mounted assemblies			E	2
030108	ZE 0: LMB Hoist limit switch mast stub has incorrect LSB-address LMB-Stop: Load torque increasing movements cannot be affected Connect sensor, or check sensor or supply line			E	2
030109	ZE 0: LMB Mast stub, press. < minimum press., load display incorrect, DANGER! LMB-Stop: Load torque increasing movements cannot be affected Check sensor, measuring cylinder for leaks			E	2
030114	ZE 0: LMB STOP, hoist limit switch 1A faulty/not present error report only Connect sensor, or check sensor or supply line			B	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
030115	ZE 0: LMB STOP, hoist limit switch 1B faulty/not present error report only Connect sensor, or check sensor or supply line			B	2
030116	ZE 0: LMB STOP, hoist limit switch 2A faulty/not present error report only Connect sensor, or check sensor or supply line			B	2
030117	ZE 0: LMB STOP, hoist limit switch 2B faulty/not present error report only Connect sensor, or check sensor or supply line			B	2
030118	ZE 0: LMB STOP, hoist limit switch 3 main boom faulty/not present error report only Connect sensor, or check sensor or supply line			B	2
030119	ZE 0: LMB STOP, hoist limit switch 3 accessory faulty/not present error report only Connect sensor, or check sensor or supply line			B	2
030133	ZE 0: LMB fly jib retaining cylinder inferior minimal pressure LMB-Stop: Load torque increasing movements cannot be affected Check overtopping guard cylinder for leaks, or check pressure transducer and replace if necessary			B	2
030134	ZE 0: LMB fly jib retaining cylinder exceeds maximum pressure LMB-Stop: Load torque increasing movements cannot be affected Check pressure and position of overtopping guard cylinder, or check pressure transducer and replace if necessary			B	2
030135	ZE 0: LMB permissible deviation of data A/B tension meas. bracket 1 exceeded LMB-Stop: Load torque increasing movements cannot be affected check connecting brackets or power supply, different stress flow into both connecting brackets possible			B	2
030136	ZE 0: LMB permissible deviation of data A/B tension meas. bracket 2 exceeded LMB-Stop: Load torque increasing movements cannot be affected check connecting brackets or power supply, different stress flow into both connecting brackets possible			B	2
030137	ZE 0: LMB permissible deviation of data A/B tension meas. bracket 3 exceeded LMB-Stop: Load torque increasing movements cannot be affected check connecting brackets or power supply, different stress flow into both connecting brackets possible			B	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
030138	ZE 0: LMB STOP, permissible deviation press. tran. mast stub 6 A/B exceeded LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
030139	ZE 0: LMB STOP, permissible deviation pressure transducer jib-RFP exceeded LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
030147	ZE 0: LMB working radius list in load chart with incorrect value LMB-Stop: Load torque increasing movements cannot be affected install new data memory card with corrected charts			B	2
030148	ZE 0: LMB actual working radius too small, not in chart LMB-Stop: Load torque increasing movements cannot be affected take care when luffing down to chart area while assembly mode selected			B	2
030149	ZE 0: LMB actual working radius too large, not in chart LMB-Stop: Load torque increasing movements cannot be affected take care with "luffing up when overloaded" when luffing up into chart area			B	2
030150	ZE 0: LMB crane stands in impermissible length-/angle position LMB-Stop: Load torque increasing movements cannot be affected conduct boom in permissible position referred to length, boom angle, bolting condition and fly jib angle			B	2
030151	ZE 0: LMB unknown access type to load chart LMB-Stop: Load torque increasing movements cannot be affected install new data memory card with corrected charts			B	2
030152	ZE 0: LMB no table exists for actual crane configuration LMB-Stop: Load torque increasing movements cannot be affected purchase additional load charts, install new data memory card with corrected charts			B	2
030170	ZE 0: LMB STOP, Dummy plug/plug mast stub main boom faulty/not present LMB-Stop: Load torque increasing movements cannot be affected Plug in dummy plug mast stub-plug			B	2
030171	ZE 0: LMB STOP, Dummy plug/plug mast stub accessory faulty/not present LMB-Stop: Load torque increasing movements cannot be affected Plug in dummy plug mast stub-plug			B	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
030180	ZE 0: LMB STOP, Difference between angle sensors main boom too great LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
030181	ZE 0: LMB STOP, Difference between angle sensors A/B derrick too great LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
030182	ZE 0: LMB difference between angle sensor cylinder lower/upper too great LMB-Stop: Load torque increasing movements cannot be affected retrieve crane deflection through unloading, or check both angle sensors or their lines			B	2
030188	ZE 0: LMB STOP, several angler sensors main boom/jib faulty/not present LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
030189	ZE 0: LMB STOP, both angle sensors derrick faulty/not present LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
030190	ZE 0: LMB angle sensor error: load, reach, pulley head height indication defect LMB-Stop: Load torque increasing movements cannot be affected check LSB-connection, angle sensor			E	2
030191	ZE 0: LMB STOP, both draw-meas. conn plates for load weigh faulty/not present LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
030192	ZE 0: LMB STOP, both press. tran. load weighing mast stub faulty/not present LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
030193	ZE 0: LMB STOP, several press. tran. derrick ballast weigh. faulty/not present LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
030194	ZE 0: LMB STOP, all press. tran. overtop. guard cylinder jib faulty/not present LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
030195	ZE 0: LMB Impermissible angle sensor from main boom or accessory active LMB-Stop: Load torque increasing movements cannot be affected Incorrect boom mounted, incorrect operation type selected or angle sensor has incorrect LSB address			B	2
030200	ZE 0: LMB STOP, crane correspondent table over-equipped control-Stop: even in operation mode crane movements cannot be affected enter chart according to mounted equipment			B	2
030201	ZE 0: LMB All movements STOP, Crawler assembly selected with mounted boom control-Stop: even in operation mode crane movements cannot be affected Select correct switch position			B	2
030202	ZE 0: LMB All movements STOP, jib over-equipped control-Stop: even in operation mode crane movements cannot be affected Disassemble surplus assemblies			B	2
030203	ZE 0: LMB All movements STOP, derrick over equipped control-Stop: even in operation mode crane movements cannot be affected Disassemble surplus assemblies			B	2
030204	ZE 0: LMB STOP, Ballast trailer overequipped LMB-Stop: Load torque increasing movements cannot be affected Disassemble surplus assemblies			B	2
030205	ZE 0: LMB STOP, susp. ballast overequipped LMB-Stop: Load torque increasing movements cannot be affected Disassemble surplus assemblies			B	2
030206	ZE 0: LMB STOP, LSB-sensor from various mast stubs simultaneously active LMB-Stop: Load torque increasing movements cannot be affected Check affiliated LSB sensor			B	2
030241	ZE 0: LMB STOP, overflow with calculation LMB-Stop: Load torque increasing movements cannot be affected Check sensor values, manual adjustments and actual crane condition, if necessary inform after-sales-service			B	3
030245	ZE 0: LMB STOP, internal memory error/program part implausible LMB-Stop: Load torque increasing movements cannot be affected Read error report/display in LICCON test system special diagram "LMB - ERRORS", inform after-sales service			E	3

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
035802	ZE 0: operation slewing Shut-down counterweight on ground Operation conditional switch off, may not be shunted If possible raise the wheels via lifting the load or reducing the mounted suspended counterweight			B	
035803	ZE 0: operation slewing Shut-down support counterweight carriage is not retracted Operation conditional switch off, may not be shunted Retract support cylinder counterweight carriage completely			B	
035804	ZE 0: operation slewing Shut-down wheels counterweight carriage not in rotary position Operation conditional switch off, may not be shunted With the pre-selection key "Rotary travel BW" turn the wheels of the counterweight carriage (BW) into turning position			B	
035805	ZE 0: operation slewing Shut-down swing with parallel travel count. carriage not possible Operation conditional switch off, may not be shunted With the pre-selection key "Rotary travel BW" turn the wheels of the counterweight carriage (BW) into turning position			B	
035808	ZE 0: operation slewing shut-down slewing right working area limitation ABB operational shut down slew left until crane is in working area again - shunting through shut-down of working area limitation			B	
035809	ZE 0: operation slewing shut-down slewing left working area limitation ABB operational shut down slew right until crane is in working area again - shunting through shut-down of working area limitation			B	
035810	ZE 0: operation slewing Shut-down free swing gear working area limitation ABB is active operational shut down slew right until crane is in working area again - shunting through shut-down of working area limitation			B	
035819	ZE 0: operation slewing no or invalid operation mode shut-down Operation conditional switch off, may not be shunted eliminate error see corresponding system error			B	
035820	ZE 0: operation slewing shut-down slewing right LMB operational shut down slew left until crane is within support area again - shut-down can be shunted (danger)			B	
035821	ZE 0: operation slewing shut-down slewing left LMB operational shut down slew right until crane is within support area again - shut-down can be shunted (danger)			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
035822	ZE 0: operation slewing Shut-down right-hand swing maximum load exceeded operational shut down Turn left until crane once again within the support area or reduce load - shut-down may be shunted (danger)			B	
035823	ZE 0: operation slewing Shut-down left-hand swing maximum load exceeded operational shut down Turn right until crane once again within the support area or reduce load - shut-down may be shunted (danger)			B	
035824	ZE 0: operation slewing Shut-down free swing gear swing area limitation load is on operational shut down Select load chart without swing area monitoring			B	
035831	ZE 0: operation slewing Master switch 2 faulty/not present Operation conditional switch off, may not be shunted eliminate error see corresponding system error			B	
035839	ZE 0: operation slewing seat contact shut-down operational shut down Sit down or actuate one of the shunting switches for the seat contact in the master switches.			B	
035854	ZE 0: operation slewing Shut-down overtopping guard cylinder main boom in bump stop Operation conditional switch off, may not be shunted Wind off main boom - adjusting winch until overtopping guard cylinder no longer in bump stop			B	
035855	ZE 0: operation slewing Shut-down overtopping guard cylinder derrick boom in bump stop Operation conditional switch off, may not be shunted Wind off derrick boom - adjusting winch until overtopping guard cylinder no longer in bump stop			B	
035870	ZE 0: operation slewing Shut-down lim switch "Count. on ground" vo. left faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
035871	ZE 0: operation slewing Shut-down lim switch "Count. on ground" vo. right faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
035872	ZE 0: operation slewing Shut-down lim switch "Count. on ground" hi. left faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
035873	ZE 0: operation slewing Shut-down lim switch "Count. on ground" hi. right faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
035874	ZE 0: operation slewing Shut-down limit switch "Support retracted" vo. faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
035875	ZE 0: operation slewing Shut-down limit switch "Support retracted" hi. faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
035885	ZE 0: operation slewing Shut-down limit switch "RFP Main boom" right faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
035886	ZE 0: operation slewing Shut-down limit switch "RFP Main boom" links faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
035887	ZE 0: operation slewing Shut-down limit switch "Overtop guard cyl D" right faulty/not prese Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
035888	ZE 0: operation slewing Shut-down limit switch "Overtop guard cyl D" left faulty/not presen Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
036941	ZE 0: Operation crane control Emerg. op. crane control switched on Caution shut-down ineffective All crane functions can be operated unlimited - no switch-offs are any longer effective. Switch off emergency operation - Caution increased risk of accident			B	
036942	ZE 0: Operation crane control Emergency op. crane cont. switched on with start test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
036943	ZE 0: Operation crane control Emergency op. crane control switched on during test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
037070	ZE 0: operation instruments crane operators cab Master switch 3X has no winch allocated - operation type Output of error, otherwise no reaction. If possible set another operation type.			B	
037071	ZE 0: operation instruments crane operators cab Master switch 3Y has no winch allocated - operation type Output of error, otherwise no reaction. If possible set another operation type.			B	
037072	ZE 0: operation instruments crane operators cab Master switch 3X has no winch allocated - crawler is on Output of error, otherwise no reaction. Switch of crawler travel operation.			B	
037073	ZE 0: operation instruments crane operators cab Master switch 3Y has no winch allocated - crawler is on Output of error, otherwise no reaction. Switch of crawler travel operation.			B	
037074	ZE 0: operation instruments crane operators cab Master switch 3Y has no winch allocated - winch 6 is on Winch 6 continues running until master switch 2Y is no longer defected. Do not modulate master switch 2Y any more.			B	
037080	ZE 0: operation instruments crane operators cab Left-hand foot rocker switch - crawler travel gear is not On Output of error, otherwise no reaction. Switch on crawler travel operation.			B	
037081	ZE 0: operation instruments crane operators cab Right-hand foot rocker switch - crawler travel gear is not On Output of error, otherwise no reaction. Switch on crawler travel operation.			B	
037082	ZE 0: operation instruments crane operators cab Master switch MS 3X is disengaged and winch 3 is not mounted Output of error Mount winch 5 or do not defect master switch any more			B	
037083	ZE 0: operation instruments crane operators cab Master switch MS 3X is disengaged and winch 5 is not mounted Output of error Mount winch 3 or do not defect master switch any more			B	
037084	ZE 0: operation instruments crane operators cab Master switch MS 3Y is disengaged and winch 4 is not mounted Output of error Mount winch 4 or do not defect master switch any more			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
037085	ZE 0: operation instruments crane operators cab Master switch MS 4Y is disengaged and crawler is not mounted Output of error Mount crawler or do not defect master switch any more			B	
037086	ZE 0: operation instruments crane operators cab Master switch MS 5Y is disengaged and crawler is not mounted Output of error Mount crawler or do not defect master switch any more			B	
037260	ZE 0: operation instruments armrest right Change-over parallel op. On/Off - winches 1-2 with running winches Winches 1 and 2 running on in parallel or single operation, until master switch 1Y is no longer defected. Do not modulate master switch 1Y any more.			B	
037270	ZE 0: operation instruments armrest right Master switch 1Y has no winch allocated - operation type Output of error, otherwise no reaction. If possible set another operation type.			B	
037271	ZE 0: operation instruments armrest right Master switch 1X has no winch allocated - crawler is on Output of error, otherwise no reaction. Switch of crawler travel operation.			B	
037272	ZE 0: operation instruments armrest right Master switch 1X has no winch allocated - winch 6 is on Winch 6 continues running until master switch 2Y is no longer defected. Do not modulate master switch 2Y any more.			B	
037280	ZE 0: operation instruments armrest right Master switch MS 1X is disengaged and winch 3 is not mounted Output of error Mount winch 3 or do not defect master switch any more			B	
037281	ZE 0: operation instruments armrest right Master switch MS 1X is disengaged and winch 4 is not mounted Output of error Mount winch 4 or do not defect master switch any more			B	
037282	ZE 0: operation instruments armrest right Master switch MS 1X is disengaged and winch 5 is not mounted Output of error Mount winch 5 or do not defect master switch any more			B	
037283	ZE 0: operation instruments armrest right Master switch MS 1Y is disengaged and winch 1 is not mounted Output of error Mount winch 3 or do not defect master switch any more			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
037284	ZE 0: operation instruments armrest right Master switch MS 1Y is disengaged and winch 2 is not mounted Output of error Mount winch 4 or do not defect master switch any more			B	
037361	ZE 0: operation instruments armrest left Change-over crawler on / off with running winches Winches continue running, until master switches 1X, 2Y, 3X, 3Y are no longer defected. D not modulate master switches 1X, 2Y, 3X, 3Y any more.			B	
037362	ZE 0: operation instruments armrest left Change-over crawler on / off with running crawler Crawler continues travelling, until master switch 4Y and 5Y are no longer defected. Do not modulate master switches 4Y and 5Y any more.			B	
037373	ZE 0: operation instruments armrest left Master switch 2Y has no winch allocated - crawler is on Output of error, otherwise no reaction. Switch of crawler travel operation.			B	
037374	ZE 0: operation instruments armrest left Master switch 2Y has no winch allocated - winch 4 is on Winch 4 continues running, until master switch 1X or 3Y is no longer defected. Do not modulate master switch 1X or 3Y any more.			B	
037385	ZE 0: operation instruments armrest left Master switch MS 2Y is disengaged and winch 2 is not mounted Output of error Mount winch 5 or do not defect master switch any more			B	
037386	ZE 0: operation instruments armrest left Master switch MS 2Y is disengaged and winch 5 is not mounted Output of error Mount winch 3 or do not defect master switch any more			B	
037387	ZE 0: operation instruments armrest left Master switch MS 2Y is disengaged and winch 6 is not mounted Output of error Mount winch 4 or do not defect master switch any more			B	
100001	ZE 1: system error OS-HC11 (observe parameters) initialising error processor-register erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
100002	ZE 1: system error OS-HC11 (observe parameters) initialising error test total in EPROM/FLASH erroneous no crane operation possible check program memory card or ZE			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
100006	ZE 1: system error OS-HC11 (observe parameters) initialising error RAM erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
100007	ZE 1: system error OS-HC11 (observe parameters) UART erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
100010	ZE 1: system error OS-HC11 (observe parameters) system routine inaccessible entry in error memory, all crane movements will be stopped			E	2
100011	ZE 1: system error OS-HC11 (observe parameters) ZE-watchdog expired entry in error memory, all crane movements will be stopped check ZE			E	2
100012	ZE 1: system error OS-HC11 (observe parameters) type-identification in EPROM erroneous entry in error memory, no crane operation possible check program memory card			E	2
100013	ZE 1: system error OS-HC11 (observe parameters) Test sum in FLASH erroneous entry in error memory, all crane movements will be stopped check program memory card			E	2
100014	ZE 1: system error OS-HC11 (observe parameters) program already running entry in error memory, all crane movements will be stopped			E	2
100015	ZE 1: system error OS-HC11 (observe parameters) program not available entry in error memory, all crane movements will be stopped			E	2
100016	ZE 1: system error OS-HC11 (observe parameters) system-, driver-watchdog expired entry in error memory, all crane movements will be stopped			E	2
100017	ZE 1: system error OS-HC11 (observe parameters) total of CPU-time distribution too great entry in error memory, all crane movements will be stopped			E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
100018	ZE 1: system error OS-HC11 (observe parameters) arithmetic overflow (16 Bit) entry in error memory, all crane movements will be stopped			E	2
100019	ZE 1: system error OS-HC11 (observe parameters) division through zero (16 Bit) entry in error memory, all crane movements will be stopped			E	2
100020	ZE 1: system error OS-HC11 (observe parameters) task-watchdog expired entry in error memory, all crane movements will be stopped			E	2
100021	ZE 1: system error OS-HC11 (observe parameters) illegal opcode trap entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
100022	ZE 1: system error OS-HC11 (observe parameters) task inactive entry in error memory, all crane movements will be stopped			E	2
100023	ZE 1: system error OS-HC11 (observe parameters) program incapable of running (type identification) entry in error memory, all crane movements will be stopped			E	2
100024	ZE 1: system error OS-HC11 (observe parameters) task already used entry in error memory, all crane movements will be stopped			E	2
100025	ZE 1: system error OS-HC11 (observe parameters) realtime-module already used entry in error memory, all crane movements will be stopped			E	2
100026	ZE 1: system error OS-HC11 (observe parameters) regulator-module already used entry in error memory, all crane movements will be stopped			E	2
100030	ZE 1: system error OS-HC11 (observe parameters) unacceptable bank address entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
100041	ZE 1: system error OS-HC11 (observe parameters) arithmetic error entry in error memory, all crane movements will be stopped			E	2
100044	ZE 1: system error OS-HC11 (observe parameters) output parameter without effect, from inactive output entry in error memory, all crane movements will be stopped			E	2
100045	ZE 1: system error OS-HC11 (observe parameters) entry parameter undefined, from inactive input entry in error memory, all crane movements will be stopped			E	2
100046	ZE 1: system error OS-HC11 (observe parameters) impermissible regulator parameter entry in error memory, all crane movements will be stopped			E	2
100047	ZE 1: system error OS-HC11 (observe parameters) realtime-control block not available entry in error memory, all crane movements will be stopped			E	2
100048	ZE 1: system error OS-HC11 (observe parameters) realtime-control block inactive entry in error memory, all crane movements will be stopped			E	2
100049	ZE 1: system error OS-HC11 (observe parameters) urgent modul, ZE not available entry in error memory, no crane operation possible check ZE			E	2
100050	ZE 1: system error OS-HC11 (observe parameters) file not available entry in error memory, all crane movements will be stopped			E	2
100051	ZE 1: system error OS-HC11 (observe parameters) file already opened entry in error memory, all crane movements will be stopped			E	2
100052	ZE 1: system error OS-HC11 (observe parameters) file not open on close entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
100053	ZE 1: system error OS-HC11 (observe parameters) system mask not available entry in error memory, all crane movements will be stopped			E	2
100054	ZE 1: system error OS-HC11 (observe parameters) system text not available entry in error memory, all crane movements will be stopped			E	2
100055	ZE 1: system error OS-HC11 (observe parameters) symbol not available entry in error memory, all crane movements will be stopped			E	2
100056	ZE 1: system error OS-HC11 (observe parameters) invalid mark in symbol entry in error memory, all crane movements will be stopped			E	2
100057	ZE 1: system error OS-HC11 (observe parameters) default load chart missing entry in error memory, all crane movements will be stopped			E	2
100058	ZE 1: system error OS-HC11 (observe parameters) amplifier erroneous or return power feed entry in error memory, all crane movements will be stopped check wiring			E	2
100059	ZE 1: system error OS-HC11 (observe parameters) subroutine not reentrant entry in error memory, all crane movements will be stopped			E	2
100060	ZE 1: system error OS-HC11 (observe parameters) transmission error SCI entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
100061	ZE 1: system error OS-HC11 (observe parameters) SCI-BREAK entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
100062	ZE 1: system error OS-HC11 (observe parameters) SCI not connected entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
100063	ZE 1: system error OS-HC11 (observe parameters) monitor error in operation entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
100065	ZE 1: system error OS-HC11 (observe parameters) impermissible bus address entry in error memory, all crane movements will be stopped			E	2
100066	ZE 1: system error OS-HC11 (observe parameters) ADC working outside the permissible tolerance entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
100067	ZE 1: system error OS-HC11 (observe parameters) arithmetic processor not available entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
100068	ZE 1: system error OS-HC11 (observe parameters) impermissible interrupt entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
100070	ZE 1: system error OS-HC11 (observe parameters) various structure versions entry in error memory, no crane operation possible			E	2
100071	ZE 1: system error OS-HC11 (observe parameters) Structure file missing or faulty entry in error memory, no crane operation possible			E	2
100072	ZE 1: system error OS-HC11 (observe parameters) structure entry senseless entry in error memory, no crane operation possible			E	2
100073	ZE 1: system error OS-HC11 (observe parameters) interpreter error entry in error memory, all crane movements will be stopped			E	2
100074	ZE 1: system error OS-HC11 (observe parameters) transformation ASCII to BIN erroneous entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
100075	ZE 1: system error OS-HC11 (observe parameters) SPI-error entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
100076	ZE 1: system error OS-HC11 (observe parameters) incorrectly inserted power unit entry in error memory, all crane movements will be stopped check memory card in power supply unit			E	2
100077	ZE 1: system error OS-HC11 (observe parameters) BAF-call-up erroneous entry in error memory, all crane movements will be stopped			E	2
100078	ZE 1: system error OS-HC11 (observe parameters) impermissible parameter entry in error memory, all crane movements will be stopped			E	2
100079	ZE 1: system error OS-HC11 (observe parameters) no right of access entry in error memory, all crane movements will be stopped			E	2
100080	ZE 1: system error OS-HC11 (observe parameters) Fatal internal error entry in error memory, all crane movements will be stopped			E	2
100081	ZE 1: system error OS-HC11 (observe parameters) stack overflow entry in error memory, all crane movements will be stopped			E	2
100082	ZE 1: system error OS-HC11 (observe parameters) hardware-watchdog erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
100094	ZE 1: system error OS-HC11 (observe parameters) transmission error parallel bus entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
100095	ZE 1: system error OS-HC11 (observe parameters) DMA-error entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
100099	ZE 1: system error OS-HC11 (observe parameters) DSP0 erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
102001	ZE 1: system error OS-TMS initialising error processor-register erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
102002	ZE 1: system error OS-TMS initialising error test total in EPROM/FLASH erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
102006	ZE 1: system error OS-TMS initialising error RAM erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
102007	ZE 1: system error OS-TMS UART erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
102020	ZE 1: system error OS-TMS task-watchdog expired entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
102021	ZE 1: system error OS-TMS illegal opcode trap entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
102082	ZE 1: system error OS-TMS hardware-watchdog erroneous entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
110012	ZE 1: output 0 short circuit to ground	X71:16		E	1
110013	ZE 1: output 0 open signal circuits	X71:16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
110014	ZE 1: output 0 short circuit to supply voltage	X71:16		E	1
110054	ZE 1: output 0 short circuit to supply voltage	X71:16		E	1
110058	ZE 1: output 0 positive switching transistor: disruption	X71:16		E	1
110070	ZE 1: output 0 measuring system defect no crane operation possible entry in error list	X71:16		E	1
110071	ZE 1: output 0 short circuit to ground or transistor defect	X71:16		E	1
110072	ZE 1: output 0 outside source feeding	X71:16		E	1
110073	ZE 1: output 0 open circuit or short circuit to supply voltage/ground	X71:16		E	1
110112	ZE 1: output 1 short circuit to ground	X71:17		E	1
110113	ZE 1: output 1 open signal circuits	X71:17		E	1
110114	ZE 1: output 1 short circuit to supply voltage	X71:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
110154	ZE 1: output 1 short circuit to supply voltage	X71:17		E	1
110158	ZE 1: output 1 positive switching transistor: disruption	X71:17		E	1
110170	ZE 1: output 1 measuring system defect no crane operation possible entry in error list	X71:17		E	1
110171	ZE 1: output 1 short circuit to ground or transistor defect	X71:17		E	1
110172	ZE 1: output 1 outside source feeding	X71:17		E	1
110173	ZE 1: output 1 open circuit or short circuit to supply voltage/ground	X71:17		E	1
110212	ZE 1: output 2 short circuit to ground	X71:18		E	1
110213	ZE 1: output 2 open signal circuits	X71:18		E	1
110214	ZE 1: output 2 short circuit to supply voltage	X71:18		E	1
110254	ZE 1: output 2 short circuit to supply voltage	X71:18		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
110258	ZE 1: output 2 positive switching transistor: disruption	X71:18		E	1
110270	ZE 1: output 2 measuring system defect no crane operation possible entry in error list	X71:18		E	1
110271	ZE 1: output 2 short circuit to ground or transistor defect	X71:18		E	1
110272	ZE 1: output 2 outside source feeding	X71:18		E	1
110273	ZE 1: output 2 open circuit or short circuit to supply voltage/ground	X71:18		E	1
110312	ZE 1: output 3 short circuit to ground	X71:19		E	1
110313	ZE 1: output 3 open signal circuits	X71:19		E	1
110314	ZE 1: output 3 short circuit to supply voltage	X71:19		E	1
110354	ZE 1: output 3 short circuit to supply voltage	X71:19		E	1
110358	ZE 1: output 3 positive switching transistor: disruption	X71:19		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
110360	ZE 1: output 3 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X71:19		E	1
110362	ZE 1: output 3 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X71:19		E	1
110363	ZE 1: output 3 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X71:19		E	1
110370	ZE 1: output 3 measuring system defect no crane operation possible entry in error list	X71:19		E	1
110371	ZE 1: output 3 short circuit to ground or transistor defect	X71:19		E	1
110372	ZE 1: output 3 outside source feeding	X71:19		E	1
110373	ZE 1: output 3 open circuit or short circuit to supply voltage/ground	X71:19		E	1
110412	ZE 1: output 4 short circuit to ground	X71:20		E	1
110413	ZE 1: output 4 open signal circuits	X71:20		E	1
110414	ZE 1: output 4 short circuit to supply voltage	X71:20		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
110454	ZE 1: output 4 short circuit to supply voltage	X71:20		E	1
110458	ZE 1: output 4 positive switching transistor: disruption	X71:20		E	1
110460	ZE 1: output 4 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X71:20		E	1
110462	ZE 1: output 4 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X71:20		E	1
110463	ZE 1: output 4 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X71:20		E	1
110470	ZE 1: output 4 measuring system defect no crane operation possible entry in error list	X71:20		E	1
110471	ZE 1: output 4 short circuit to ground or transistor defect	X71:20		E	1
110472	ZE 1: output 4 outside source feeding	X71:20		E	1
110473	ZE 1: output 4 open circuit or short circuit to supply voltage/ground	X71:20		E	1
110512	ZE 1: output 5 short circuit to ground	X71:21		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
110513	ZE 1: output 5 open signal circuits	X71:21		E	1
110514	ZE 1: output 5 short circuit to supply voltage	X71:21		E	1
110554	ZE 1: output 5 short circuit to supply voltage	X71:21		E	1
110558	ZE 1: output 5 positive switching transistor: disruption	X71:21		E	1
110570	ZE 1: output 5 measuring system defect no crane operation possible entry in error list	X71:21		E	1
110571	ZE 1: output 5 short circuit to ground or transistor defect	X71:21		E	1
110572	ZE 1: output 5 outside source feeding	X71:21		E	1
110573	ZE 1: output 5 open circuit or short circuit to supply voltage/ground	X71:21		E	1
110612	ZE 1: output 6 short circuit to ground	X71:22		E	1
110613	ZE 1: output 6 open signal circuits	X71:22		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
110614	ZE 1: output 6 short circuit to supply voltage	X71:22		E	1
110654	ZE 1: output 6 short circuit to supply voltage	X71:22		E	1
110658	ZE 1: output 6 positive switching transistor: disruption	X71:22		E	1
110670	ZE 1: output 6 measuring system defect no crane operation possible entry in error list	X71:22		E	1
110671	ZE 1: output 6 short circuit to ground or transistor defect	X71:22		E	1
110672	ZE 1: output 6 outside source feeding	X71:22		E	1
110673	ZE 1: output 6 open circuit or short circuit to supply voltage/ground	X71:22		E	1
110712	ZE 1: output 7 short circuit to ground	X71:23		E	1
110713	ZE 1: output 7 open signal circuits	X71:23		E	1
110714	ZE 1: output 7 short circuit to supply voltage	X71:23		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
110754	ZE 1: output 7 short circuit to supply voltage	X71:23		E	1
110758	ZE 1: output 7 positive switching transistor: disruption	X71:23		E	1
110770	ZE 1: output 7 measuring system defect no crane operation possible entry in error list	X71:23		E	1
110771	ZE 1: output 7 short circuit to ground or transistor defect	X71:23		E	1
110772	ZE 1: output 7 outside source feeding	X71:23		E	1
110773	ZE 1: output 7 open circuit or short circuit to supply voltage/ground	X71:23		E	1
114959	ZE 1: all output supply voltage missing	X71		E	1
115059	ZE 1: output group 0 supply voltage missing	X71:12		E	1
115159	ZE 1: output group 1 supply voltage missing	X71:24		E	1
115259	ZE 1: output group 2 supply voltage missing	X71:25		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
115359	ZE 1: output group 3 supply voltage missing	X71:13		E	1
120004	ZE 1: LSB participant address 0 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1
120005	ZE 1: LSB participant address 0 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1
120018	ZE 1: LSB participant address 0 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0
120050	ZE 1: LSB participant address 0 reports an incorrect sensor type  Check Bus configuration in LSB test system, remove faulty / incorrect users from Bus	X635A:z14/z16		E	1
120050	ZE 1: LSB participant address 0 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2
120051	ZE 1: LSB participant address 0 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2
120053	ZE 1: LSB participant address 0 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1
120054	ZE 1: LSB participant address 0 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2
120064	ZE 1: LSB participant address 0 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
120065	ZE 1: LSB participant address 0 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2
120066	ZE 1: LSB participant address 0 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2
120067	ZE 1: LSB participant address 0 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1
120104	ZE 1: LSB participant address 1 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1
120105	ZE 1: LSB participant address 1 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1
120118	ZE 1: LSB participant address 1 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0
120150	ZE 1: LSB participant address 1 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2
120151	ZE 1: LSB participant address 1 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2
120153	ZE 1: LSB participant address 1 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1
120154	ZE 1: LSB participant address 1 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
120164	ZE 1: LSB participant address 1 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1
120165	ZE 1: LSB participant address 1 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2
120166	ZE 1: LSB participant address 1 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2
120167	ZE 1: LSB participant address 1 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1
120404	ZE 1: LSB participant address 4 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1
120405	ZE 1: LSB participant address 4 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1
120418	ZE 1: LSB participant address 4 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0
120450	ZE 1: LSB participant address 4 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2
120451	ZE 1: LSB participant address 4 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2
120453	ZE 1: LSB participant address 4 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
120454	ZE 1: LSB participant address 4 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2
120464	ZE 1: LSB participant address 4 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1
120465	ZE 1: LSB participant address 4 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2
120466	ZE 1: LSB participant address 4 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2
120467	ZE 1: LSB participant address 4 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1
120504	ZE 1: LSB participant address 5 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1
120505	ZE 1: LSB participant address 5 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1
120518	ZE 1: LSB participant address 5 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0
120550	ZE 1: LSB participant address 5 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2
120551	ZE 1: LSB participant address 5 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
120553	ZE 1: LSB participant address 5 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1
120554	ZE 1: LSB participant address 5 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2
120564	ZE 1: LSB participant address 5 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1
120565	ZE 1: LSB participant address 5 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2
120566	ZE 1: LSB participant address 5 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2
120567	ZE 1: LSB participant address 5 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1
120704	ZE 1: LSB participant address 7 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1
120705	ZE 1: LSB participant address 7 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1
120718	ZE 1: LSB participant address 7 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0
120750	ZE 1: LSB participant address 7 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
120751	ZE 1: LSB participant address 7 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2
120753	ZE 1: LSB participant address 7 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1
120754	ZE 1: LSB participant address 7 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2
120764	ZE 1: LSB participant address 7 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1
120765	ZE 1: LSB participant address 7 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2
120766	ZE 1: LSB participant address 7 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2
120767	ZE 1: LSB participant address 7 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1
121004	ZE 1: LSB participant address 10 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1
121005	ZE 1: LSB participant address 10 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1
121018	ZE 1: LSB participant address 10 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
121050	ZE 1: LSB participant address 10 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2
121051	ZE 1: LSB participant address 10 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2
121053	ZE 1: LSB participant address 10 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1
121054	ZE 1: LSB participant address 10 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2
121064	ZE 1: LSB participant address 10 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1
121065	ZE 1: LSB participant address 10 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2
121066	ZE 1: LSB participant address 10 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2
121067	ZE 1: LSB participant address 10 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1
121104	ZE 1: LSB participant address 11 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1
121105	ZE 1: LSB participant address 11 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
121118	ZE 1: LSB participant address 11 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0
121150	ZE 1: LSB participant address 11 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2
121151	ZE 1: LSB participant address 11 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2
121153	ZE 1: LSB participant address 11 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1
121154	ZE 1: LSB participant address 11 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2
121164	ZE 1: LSB participant address 11 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1
121165	ZE 1: LSB participant address 11 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2
121166	ZE 1: LSB participant address 11 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2
121167	ZE 1: LSB participant address 11 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1
121204	ZE 1: LSB participant address 12 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
121205	ZE 1: LSB participant address 12 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1
121218	ZE 1: LSB participant address 12 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0
121250	ZE 1: LSB participant address 12 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2
121251	ZE 1: LSB participant address 12 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2
121253	ZE 1: LSB participant address 12 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1
121254	ZE 1: LSB participant address 12 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2
121264	ZE 1: LSB participant address 12 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1
121265	ZE 1: LSB participant address 12 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2
121266	ZE 1: LSB participant address 12 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2
121267	ZE 1: LSB participant address 12 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
121804	ZE 1: LSB participant address 18 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1
121805	ZE 1: LSB participant address 18 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1
121818	ZE 1: LSB participant address 18 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0
121850	ZE 1: LSB participant address 18 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2
121851	ZE 1: LSB participant address 18 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2
121853	ZE 1: LSB participant address 18 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1
121854	ZE 1: LSB participant address 18 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2
121864	ZE 1: LSB participant address 18 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1
121865	ZE 1: LSB participant address 18 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2
121866	ZE 1: LSB participant address 18 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
121867	ZE 1: LSB participant address 18 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1
122304	ZE 1: LSB participant address 23 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635A:z14/z16		E	1
122305	ZE 1: LSB participant address 23 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635A:z14/z16		E	1
122318	ZE 1: LSB participant address 23 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635A:z14/z16		E	0
122350	ZE 1: LSB participant address 23 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635A:z14/z16		E	2
122351	ZE 1: LSB participant address 23 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635A:z14/z16		E	2
122353	ZE 1: LSB participant address 23 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635A:z14/z16		E	1
122354	ZE 1: LSB participant address 23 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635A:z14/z16		E	2
122364	ZE 1: LSB participant address 23 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635A:z14/z16		E	1
122365	ZE 1: LSB participant address 23 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635A:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
122366	ZE 1: LSB participant address 23 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635A:z14/z16		E	2
122367	ZE 1: LSB participant address 23 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635A:z14/z16		E	1
123252	ZE 1: Control data transfer LSB has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X635A:z14/z16		E	0
123255	ZE 1: Control data transfer LSB Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635A:z14/z16		E	2
123256	ZE 1: Control data transfer LSB Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635A:z14/z16		E	2
123257	ZE 1: Control data transfer LSB has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X635A:z14/z16		E	1
123258	ZE 1: Control data transfer LSB recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X635A:z14/z16		E	0
123259	ZE 1: Control data transfer LSB recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X635A:z14/z16		E	0
123260	ZE 1: Control data transfer LSB driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X635A:z14/z16		E	2
123261	ZE 1: Control data transfer LSB driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malf. error will be eliminated by system itself otherwise new Software necessary for error elimination	X635A:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
123262	ZE 1: Control data transfer LSB Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X635A:z14/z16		E	2
124814	ZE 1: input 0 short circuit to supply voltage Output of error Check: the sensor line for short-circuits, faulty sensors by pulling out the sensor, connections to the input plate	X635A:d2		E	1
124856	ZE 1: input 0 open circuit or short circuit to ground Output of error Check: Supply voltage, input LICCON, sensor lines for interruptions, faulty sensors by pulling out the sensor	X635A:d2		E	1
124914	ZE 1: input 1 short circuit to supply voltage Output of error Check: the sensor line for short-circuits, faulty sensors by pulling out the sensor, connections to the input plate	X635A:d4		E	1
124956	ZE 1: input 1 open circuit or short circuit to ground Output of error Check: Supply voltage, input LICCON, sensor lines for interruptions, faulty sensors by pulling out the sensor	X635A:d4		E	1
125814	ZE 1: input 10 short circuit to supply voltage report of error, shut-down through application Check sensor line for short-circuit, for faulty sensors by pulling out sensor, connection to input	X635A:d22		E	1
125856	ZE 1: input 10 open circuit or short circuit to ground report of error, shut-down through application Check supply voltage, input LICCON, sensor line for interruption, for faulty sensors by pulling out G	X635A:d22		E	1
126114	ZE 1: input 13 short circuit to supply voltage report of error, shut-down through application Check sensor line for short-circuit, for faulty sensors by pulling out sensor, connection to input	X635A:d28		E	1
126156	ZE 1: input 13 open circuit or short circuit to ground report of error, shut-down through application Check supply voltage, input LICCON, sensor line for interruption, for faulty sensors by pulling out G	X635A:d28		E	1
126214	ZE 1: input 14 short circuit to supply voltage report of error, shut-down through application Check sensor line for short-circuit, for faulty sensors by pulling out sensor, connection to input	X635A:d30		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
126256	ZE 1: input 14 open circuit or short circuit to ground report of error, shut-down through application Check supply voltage, input LICCON, sensor line for interruption, for faulty sensors by pulling out G	X635A:d30		E	1
126314	ZE 1: input 15 short circuit to supply voltage report of error, shut-down through application Check sensor line for short-circuit, for faulty sensors by pulling out sensor, connection to input	X635A:d32		E	1
126356	ZE 1: input 15 open circuit or short circuit to ground report of error, shut-down through application Check supply voltage, input LICCON, sensor line for interruption, for faulty sensors by pulling out G	X635A:d32		E	1
130008	ZE 1: LMB Winch 3 not adjusted, rope lengths-/range of lift display faulty Imprecise winch control and incorrect rope length display on this winch Readjust rope length display for this winch			E	1
130009	ZE 1: LMB Winch 4 not adjusted, rope lengths-/range of lift display faulty Imprecise winch control and incorrect rope length display on this winch Readjust rope length display for this winch			E	1
130010	ZE 1: LMB Winch 5 not adjusted, rope lengths-/range of lift display faulty Imprecise winch control and incorrect rope length display on this winch Readjust rope length display for this winch			E	1
130011	ZE 1: LMB Winch 6 not adjusted, rope lengths-/range of lift display faulty Imprecise winch control and incorrect rope length display on this winch Readjust rope length display for this winch			E	1
130017	ZE 1: LMB Pressure transducer overtop guard cyl derrick faulty/not present error report only Check sensor and supply line, replace faulty sensor			E	1
130018	ZE 1: LMB Measuring signal derrick implausible (moment to the rear) error report only Check meas. points 1,3,4,5, angle sensor derr, pressure transducer RFP derr, length indic derr count and replace if nec.			B	1
130019	ZE 1: LMB Measuring signal derrick implausible (moment to the front) error report only Check meas. points 1,3,4,5, angle sensor derr, pressure transducer RFP derr, length indic derr count and replace if nec.			B	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
130020	ZE 1: LMB B-guide frame not definitely bolted front or rear Derrick counterweight radius has poss. been calculated short for front bolting point, load will poss. be reduced Check dummy plug signals			B	1
130021	ZE 1: LMB Derrick ballast input value outside of permissible area error report only Set correct value			B	1
130022	ZE 1: LMB Derrick ballast input not possible, master switch disengaged error report only Put all master switches in zero position			B	1
130065	ZE 1: LMB computation-bound program part will no longer run LMB-Stop: Load torque increasing movements cannot be affected on starting, the set-up equipment program key was pressed			B	2
130126	ZE 1: LMB STOP, press. tran. count. R measuring point 4A faulty/not present Weighed derrick counterweight is imprecise and LMB-Stop: Load moment increased movements not operable Check sensor and supply line, replace faulty sensor			E	2
130127	ZE 1: LMB STOP, press. tran. count. R measuring point 4B faulty/not present Weighed derrick counterweight is imprecise and LMB-Stop: Load moment increased movements not operable Check sensor and supply line, replace faulty sensor			E	2
130128	ZE 1: LMB STOP, press. tran. count. K measuring point 5 faulty/not present Weighed derrick counterweight is imprecise and LMB-Stop: Load moment increased movements not operable Check sensor and supply line, replace faulty sensor			E	2
130129	ZE 1: LMB STOP, length indicator derrick counterweight faulty/not present LMB-Stop: Load torque increasing movements cannot be affected Check sensor and supply line, replace faulty sensor			E	2
130158	ZE 1: LMB Derrick ballast, weighing and entry implausible LMB-Stop: Load torque increasing movements cannot be affected Check derrick counterweight input value, check sensor for derrick counterweight weighing + length indicator			B	2
130159	ZE 1: LMB Derrick angle not in permissible derrick angle window LMB-Stop: Load torque increasing movements cannot be affected Luff derrick into permissible angle area			B	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
130183	ZE 1: LMB STOP, Difference between derrick ballast force A/B too great LMB-Stop: Load torque increasing movements cannot be affected Load both derrick counterweight tensioners evenly			B	2
130241	ZE 1: LMB STOP, overflow with calculation LMB-Stop: Load torque increasing movements cannot be affected Check sensor values, manual adjustments and actual crane condition, if necessary inform after-sales-service			B	3
130245	ZE 1: LMB STOP, internal memory error/program part implausible LMB-Stop: Load torque increasing movements cannot be affected Read error report/display in LICCON test system special diagram "LMB - ERRORS", inform after-sales service			E	3
136900	ZE 1: Operation crane control Shut-down assembly cylinder without or with invalid operation type Output of error, shut-down via application. Set correct operation type or disassemble accessory part - shut-down may not be shunted.			B	
136901	ZE 1: Operation crane control Shut-down assembly cylinder master switch 2 faulty / not present Output of error, shut-down via application. Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
136942	ZE 1: Operation crane control Emergency op. crane cont. switched on with start test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
136943	ZE 1: Operation crane control Emergency op. crane control switched on during test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
187252	E/A-Modul 1: Control data transfer LSB-B has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X613:4/6		E	0
187255	E/A-Modul 1: Control data transfer LSB-B Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X613:4/6		E	2
187256	E/A-Modul 1: Control data transfer LSB-B Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X613:4/6		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
187257	E/A-Modul 1: Control data transfer LSB-B has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X613:4/6		E	1
187258	E/A-Modul 1: Control data transfer LSB-B recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X613:4/6		E	0
187259	E/A-Modul 1: Control data transfer LSB-B recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X613:4/6		E	0
187260	E/A-Modul 1: Control data transfer LSB-B driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X613:4/6		E	2
187261	E/A-Modul 1: Control data transfer LSB-B driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malf. error will be eliminated by system itself otherwise new Software necessary for error elimination	X613:4/6		E	2
187262	E/A-Modul 1: Control data transfer LSB-B Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X613:4/6		E	2
200001	ZE 2: system error OS-HC11 (observe parameters) initialising error processor-register erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
200002	ZE 2: system error OS-HC11 (observe parameters) initialising error test total in EPROM/FLASH erroneous no crane operation possible check program memory card or ZE			E	2
200006	ZE 2: system error OS-HC11 (observe parameters) initialising error RAM erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
200007	ZE 2: system error OS-HC11 (observe parameters) UART erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
200010	ZE 2: system error OS-HC11 (observe parameters) system routine inaccessible entry in error memory, all crane movements will be stopped			E	2
200011	ZE 2: system error OS-HC11 (observe parameters) ZE-watchdog expired entry in error memory, all crane movements will be stopped check ZE			E	2
200012	ZE 2: system error OS-HC11 (observe parameters) type-identification in EPROM erroneous entry in error memory, no crane operation possible check program memory card			E	2
200013	ZE 2: system error OS-HC11 (observe parameters) Test sum in FLASH erroneous entry in error memory, all crane movements will be stopped check program memory card			E	2
200014	ZE 2: system error OS-HC11 (observe parameters) program already running entry in error memory, all crane movements will be stopped			E	2
200015	ZE 2: system error OS-HC11 (observe parameters) program not available entry in error memory, all crane movements will be stopped			E	2
200016	ZE 2: system error OS-HC11 (observe parameters) system-, driver-watchdog expired entry in error memory, all crane movements will be stopped			E	2
200017	ZE 2: system error OS-HC11 (observe parameters) total of CPU-time distribution too great entry in error memory, all crane movements will be stopped			E	2
200018	ZE 2: system error OS-HC11 (observe parameters) arithmetic overflow (16 Bit) entry in error memory, all crane movements will be stopped			E	2
200019	ZE 2: system error OS-HC11 (observe parameters) division through zero (16 Bit) entry in error memory, all crane movements will be stopped			E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
200020	ZE 2: system error OS-HC11 (observe parameters) task-watchdog expired entry in error memory, all crane movements will be stopped			E	2
200021	ZE 2: system error OS-HC11 (observe parameters) illegal opcode trap entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
200022	ZE 2: system error OS-HC11 (observe parameters) task inactive entry in error memory, all crane movements will be stopped			E	2
200023	ZE 2: system error OS-HC11 (observe parameters) program incapable of running (type identification) entry in error memory, all crane movements will be stopped			E	2
200024	ZE 2: system error OS-HC11 (observe parameters) task already used entry in error memory, all crane movements will be stopped			E	2
200025	ZE 2: system error OS-HC11 (observe parameters) realtime-module already used entry in error memory, all crane movements will be stopped			E	2
200026	ZE 2: system error OS-HC11 (observe parameters) regulator-module already used entry in error memory, all crane movements will be stopped			E	2
200030	ZE 2: system error OS-HC11 (observe parameters) unacceptable bank address entry in error memory, all crane movements will be stopped			E	2
200041	ZE 2: system error OS-HC11 (observe parameters) arithmetic error entry in error memory, all crane movements will be stopped			E	2
200044	ZE 2: system error OS-HC11 (observe parameters) output parameter without effect, from inactive output entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
200045	ZE 2: system error OS-HC11 (observe parameters) entry parameter undefined, from inactive input entry in error memory, all crane movements will be stopped			E	2
200046	ZE 2: system error OS-HC11 (observe parameters) impermissible regulator parameter entry in error memory, all crane movements will be stopped			E	2
200047	ZE 2: system error OS-HC11 (observe parameters) realtime-control block not available entry in error memory, all crane movements will be stopped			E	2
200048	ZE 2: system error OS-HC11 (observe parameters) realtime-control block inactive entry in error memory, all crane movements will be stopped			E	2
200049	ZE 2: system error OS-HC11 (observe parameters) urgent modul, ZE not available entry in error memory, no crane operation possible check ZE			E	2
200050	ZE 2: system error OS-HC11 (observe parameters) file not available entry in error memory, all crane movements will be stopped			E	2
200051	ZE 2: system error OS-HC11 (observe parameters) file already opened entry in error memory, all crane movements will be stopped			E	2
200052	ZE 2: system error OS-HC11 (observe parameters) file not open on close entry in error memory, all crane movements will be stopped			E	2
200053	ZE 2: system error OS-HC11 (observe parameters) system mask not available entry in error memory, all crane movements will be stopped			E	2
200054	ZE 2: system error OS-HC11 (observe parameters) system text not available entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
200055	ZE 2: system error OS-HC11 (observe parameters) symbol not available entry in error memory, all crane movements will be stopped			E	2
200056	ZE 2: system error OS-HC11 (observe parameters) invalid mark in symbol entry in error memory, all crane movements will be stopped			E	2
200057	ZE 2: system error OS-HC11 (observe parameters) default load chart missing entry in error memory, all crane movements will be stopped			E	2
200058	ZE 2: system error OS-HC11 (observe parameters) amplifier erroneous or return power feed entry in error memory, all crane movements will be stopped check wiring			E	2
200059	ZE 2: system error OS-HC11 (observe parameters) subroutine not reenterant entry in error memory, all crane movements will be stopped			E	2
200060	ZE 2: system error OS-HC11 (observe parameters) transmission error SCI entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
200061	ZE 2: system error OS-HC11 (observe parameters) SCI-BREAK entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
200062	ZE 2: system error OS-HC11 (observe parameters) SCI not connected entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
200063	ZE 2: system error OS-HC11 (observe parameters) monitor error in operation entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
200065	ZE 2: system error OS-HC11 (observe parameters) impermissible bus address entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
200066	ZE 2: system error OS-HC11 (observe parameters) ADC working outside the permissible tolerance entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
200067	ZE 2: system error OS-HC11 (observe parameters) arithmetic processor not available entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
200068	ZE 2: system error OS-HC11 (observe parameters) impermissible interrupt entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
200070	ZE 2: system error OS-HC11 (observe parameters) various structure versions entry in error memory, no crane operation possible			E	2
200071	ZE 2: system error OS-HC11 (observe parameters) Structure file missing or faulty entry in error memory, no crane operation possible			E	2
200072	ZE 2: system error OS-HC11 (observe parameters) structure entry senseless entry in error memory, no crane operation possible			E	2
200073	ZE 2: system error OS-HC11 (observe parameters) interpreter error entry in error memory, all crane movements will be stopped			E	2
200074	ZE 2: system error OS-HC11 (observe parameters) transformation ASCII to BIN erroneous entry in error memory, all crane movements will be stopped			E	2
200075	ZE 2: system error OS-HC11 (observe parameters) SPI-error entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
200076	ZE 2: system error OS-HC11 (observe parameters) incorrectly inserted power unit entry in error memory, all crane movements will be stopped check memory card in power supply unit			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
200077	ZE 2: system error OS-HC11 (observe parameters) BAF-call-up erroneous entry in error memory, all crane movements will be stopped			E	2
200078	ZE 2: system error OS-HC11 (observe parameters) impermissible parameter entry in error memory, all crane movements will be stopped			E	2
200079	ZE 2: system error OS-HC11 (observe parameters) no right of access entry in error memory, all crane movements will be stopped			E	2
200080	ZE 2: system error OS-HC11 (observe parameters) Fatal internal error entry in error memory, all crane movements will be stopped			E	2
200081	ZE 2: system error OS-HC11 (observe parameters) stack overflow entry in error memory, all crane movements will be stopped			E	2
200082	ZE 2: system error OS-HC11 (observe parameters) hardware-watchdog erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
200094	ZE 2: system error OS-HC11 (observe parameters) transmission error parallel bus entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
200095	ZE 2: system error OS-HC11 (observe parameters) DMA-error entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
200099	ZE 2: system error OS-HC11 (observe parameters) DSP0 erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
202001	ZE 2: system error OS-TMS initialising error processor-register erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
202002	ZE 2: system error OS-TMS initialising error test total in EPROM/FLASH erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
202006	ZE 2: system error OS-TMS initialising error RAM erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
202007	ZE 2: system error OS-TMS UART erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
202020	ZE 2: system error OS-TMS task-watchdog expired entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
202021	ZE 2: system error OS-TMS illegal opcode trap entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
202082	ZE 2: system error OS-TMS hardware-watchdog erroneous entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
210012	ZE 2: output 0 short circuit to ground	X72:16		E	1
210013	ZE 2: output 0 open signal circuits	X72:16		E	1
210014	ZE 2: output 0 short circuit to supply voltage	X72:16		E	1
210054	ZE 2: output 0 short circuit to supply voltage	X72:16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
210058	ZE 2: output 0 positive switching transistor: disruption	X72:16		E	1
210060	ZE 2: output 0 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X72:16		E	1
210062	ZE 2: output 0 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X72:16		E	1
210063	ZE 2: output 0 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X72:16		E	1
210070	ZE 2: output 0 measuring system defect no crane operation possible entry in error list	X72:16		E	1
210071	ZE 2: output 0 short circuit to ground or transistor defect	X72:16		E	1
210072	ZE 2: output 0 outside source feeding	X72:16		E	1
210073	ZE 2: output 0 open circuit or short circuit to supply voltage/ground	X72:16		E	1
210112	ZE 2: output 1 short circuit to ground	X72:17		E	1
210113	ZE 2: output 1 open signal circuits	X72:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
210114	ZE 2: output 1 short circuit to supply voltage	X72:17		E	1
210154	ZE 2: output 1 short circuit to supply voltage	X72:17		E	1
210158	ZE 2: output 1 positive switching transistor: disruption	X72:17		E	1
210160	ZE 2: output 1 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X72:17		E	1
210162	ZE 2: output 1 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X72:17		E	1
210163	ZE 2: output 1 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X72:17		E	1
210170	ZE 2: output 1 measuring system defect no crane operation possible entry in error list	X72:17		E	1
210171	ZE 2: output 1 short circuit to ground or transistor defect	X72:17		E	1
210172	ZE 2: output 1 outside source feeding	X72:17		E	1
210173	ZE 2: output 1 open circuit or short circuit to supply voltage/ground	X72:17		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
210212	ZE 2: output 2 short circuit to ground	X72:18		E	1
210213	ZE 2: output 2 open signal circuits	X72:18		E	1
210214	ZE 2: output 2 short circuit to supply voltage	X72:18		E	1
210254	ZE 2: output 2 short circuit to supply voltage	X72:18		E	1
210258	ZE 2: output 2 positive switching transistor: disruption	X72:18		E	1
210270	ZE 2: output 2 measuring system defect no crane operation possible entry in error list	X72:18		E	1
210271	ZE 2: output 2 short circuit to ground or transistor defect	X72:18		E	1
210272	ZE 2: output 2 outside source feeding	X72:18		E	1
210273	ZE 2: output 2 open circuit or short circuit to supply voltage/ground	X72:18		E	1
210312	ZE 2: output 3 short circuit to ground	X72:19		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
210313	ZE 2: output 3 open signal circuits	X72:19		E	1
210314	ZE 2: output 3 short circuit to supply voltage	X72:19		E	1
210354	ZE 2: output 3 short circuit to supply voltage	X72:19		E	1
210358	ZE 2: output 3 positive switching transistor: disruption	X72:19		E	1
210360	ZE 2: output 3 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X72:19		E	1
210362	ZE 2: output 3 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X72:19		E	1
210363	ZE 2: output 3 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X72:19		E	1
210370	ZE 2: output 3 measuring system defect no crane operation possible entry in error list	X72:19		E	1
210371	ZE 2: output 3 short circuit to ground or transistor defect	X72:19		E	1
210372	ZE 2: output 3 outside source feeding	X72:19		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
210373	ZE 2: output 3 open circuit or short circuit to supply voltage/ground	X72:19		E	1
210412	ZE 2: output 4 short circuit to ground	X72:20		E	1
210413	ZE 2: output 4 open signal circuits	X72:20		E	1
210414	ZE 2: output 4 short circuit to supply voltage	X72:20		E	1
210454	ZE 2: output 4 short circuit to supply voltage	X72:20		E	1
210458	ZE 2: output 4 positive switching transistor: disruption	X72:20		E	1
210460	ZE 2: output 4 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X72:20		E	1
210462	ZE 2: output 4 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X72:20		E	1
210463	ZE 2: output 4 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X72:20		E	1
210470	ZE 2: output 4 measuring system defect no crane operation possible entry in error list	X72:20		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
210471	ZE 2: output 4 short circuit to ground or transistor defect	X72:20		E	1
210472	ZE 2: output 4 outside source feeding	X72:20		E	1
210473	ZE 2: output 4 open circuit or short circuit to supply voltage/ground	X72:20		E	1
210512	ZE 2: output 5 short circuit to ground	X72:21		E	1
210513	ZE 2: output 5 open signal circuits	X72:21		E	1
210514	ZE 2: output 5 short circuit to supply voltage	X72:21		E	1
210554	ZE 2: output 5 short circuit to supply voltage	X72:21		E	1
210558	ZE 2: output 5 positive switching transistor: disruption	X72:21		E	1
210560	ZE 2: output 5 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X72:21		E	1
210562	ZE 2: output 5 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X72:21		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
210563	ZE 2: output 5 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X72:21		E	1
210570	ZE 2: output 5 measuring system defect no crane operation possible entry in error list	X72:21		E	1
210571	ZE 2: output 5 short circuit to ground or transistor defect	X72:21		E	1
210572	ZE 2: output 5 outside source feeding	X72:21		E	1
210573	ZE 2: output 5 open circuit or short circuit to supply voltage/ground	X72:21		E	1
210612	ZE 2: output 6 short circuit to ground	X72:22		E	1
210613	ZE 2: output 6 open signal circuits	X72:22		E	1
210614	ZE 2: output 6 short circuit to supply voltage	X72:22		E	1
210654	ZE 2: output 6 short circuit to supply voltage	X72:22		E	1
210658	ZE 2: output 6 positive switching transistor: disruption	X72:22		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
210670	ZE 2: output 6 measuring system defect no crane operation possible entry in error list	X72:22		E	1
210671	ZE 2: output 6 short circuit to ground or transistor defect	X72:22		E	1
210672	ZE 2: output 6 outside source feeding	X72:22		E	1
210673	ZE 2: output 6 open circuit or short circuit to supply voltage/ground	X72:22		E	1
210712	ZE 2: output 7 short circuit to ground	X72:23		E	1
210713	ZE 2: output 7 open signal circuits	X72:23		E	1
210714	ZE 2: output 7 short circuit to supply voltage	X72:23		E	1
210754	ZE 2: output 7 short circuit to supply voltage	X72:23		E	1
210758	ZE 2: output 7 positive switching transistor: disruption	X72:23		E	1
210760	ZE 2: output 7 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X72:23		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
210762	ZE 2: output 7 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X72:23		E	1
210763	ZE 2: output 7 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X72:23		E	1
210770	ZE 2: output 7 measuring system defect no crane operation possible entry in error list	X72:23		E	1
210771	ZE 2: output 7 short circuit to ground or transistor defect	X72:23		E	1
210772	ZE 2: output 7 outside source feeding	X72:23		E	1
210773	ZE 2: output 7 open circuit or short circuit to supply voltage/ground	X72:23		E	1
214959	ZE 2: all output supply voltage missing	X72		E	1
215059	ZE 2: output group 0 supply voltage missing	X72:12		E	1
215159	ZE 2: output group 1 supply voltage missing	X72:24		E	1
215259	ZE 2: output group 2 supply voltage missing	X72:25		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
215359	ZE 2: output group 3 supply voltage missing	X72:13		E	1
220004	ZE 2: LSB participant address 0 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635B:z14/z16		E	1
220005	ZE 2: LSB participant address 0 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635B:z14/z16		E	1
220018	ZE 2: LSB participant address 0 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635B:z14/z16		E	0
220050	ZE 2: LSB participant address 0 reports an incorrect sensor type  Check Bus configuration in LSB test system, remove faulty / incorrect users from Bus	X635B:z14/z16		E	1
220050	ZE 2: LSB participant address 0 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635B:z14/z16		E	2
220051	ZE 2: LSB participant address 0 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635B:z14/z16		E	2
220053	ZE 2: LSB participant address 0 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635B:z14/z16		E	1
220054	ZE 2: LSB participant address 0 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635B:z14/z16		E	2
220064	ZE 2: LSB participant address 0 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635B:z14/z16		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
220065	ZE 2: LSB participant address 0 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635B:z14/z16		E	2
220066	ZE 2: LSB participant address 0 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635B:z14/z16		E	2
220067	ZE 2: LSB participant address 0 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635B:z14/z16		E	1
220104	ZE 2: LSB participant address 1 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635B:z14/z16		E	1
220105	ZE 2: LSB participant address 1 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635B:z14/z16		E	1
220118	ZE 2: LSB participant address 1 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635B:z14/z16		E	0
220150	ZE 2: LSB participant address 1 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635B:z14/z16		E	2
220151	ZE 2: LSB participant address 1 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635B:z14/z16		E	2
220153	ZE 2: LSB participant address 1 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635B:z14/z16		E	1
220154	ZE 2: LSB participant address 1 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635B:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
220164	ZE 2: LSB participant address 1 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635B:z14/z16		E	1
220165	ZE 2: LSB participant address 1 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635B:z14/z16		E	2
220166	ZE 2: LSB participant address 1 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635B:z14/z16		E	2
220167	ZE 2: LSB participant address 1 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635B:z14/z16		E	1
220904	ZE 2: LSB participant address 9 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635B:z14/z16		E	1
220905	ZE 2: LSB participant address 9 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635B:z14/z16		E	1
220918	ZE 2: LSB participant address 9 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635B:z14/z16		E	0
220950	ZE 2: LSB participant address 9 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635B:z14/z16		E	2
220951	ZE 2: LSB participant address 9 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635B:z14/z16		E	2
220953	ZE 2: LSB participant address 9 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635B:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
220954	ZE 2: LSB participant address 9 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635B:z14/z16		E	2
220964	ZE 2: LSB participant address 9 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635B:z14/z16		E	1
220965	ZE 2: LSB participant address 9 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635B:z14/z16		E	2
220966	ZE 2: LSB participant address 9 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635B:z14/z16		E	2
220967	ZE 2: LSB participant address 9 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635B:z14/z16		E	1
221004	ZE 2: LSB participant address 10 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635B:z14/z16		E	1
221005	ZE 2: LSB participant address 10 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635B:z14/z16		E	1
221018	ZE 2: LSB participant address 10 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635B:z14/z16		E	0
221050	ZE 2: LSB participant address 10 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635B:z14/z16		E	2
221051	ZE 2: LSB participant address 10 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635B:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
221053	ZE 2: LSB participant address 10 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635B:z14/z16		E	1
221054	ZE 2: LSB participant address 10 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635B:z14/z16		E	2
221064	ZE 2: LSB participant address 10 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635B:z14/z16		E	1
221065	ZE 2: LSB participant address 10 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635B:z14/z16		E	2
221066	ZE 2: LSB participant address 10 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635B:z14/z16		E	2
221067	ZE 2: LSB participant address 10 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635B:z14/z16		E	1
221104	ZE 2: LSB participant address 11 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635B:z14/z16		E	1
221105	ZE 2: LSB participant address 11 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635B:z14/z16		E	1
221118	ZE 2: LSB participant address 11 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635B:z14/z16		E	0
221150	ZE 2: LSB participant address 11 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635B:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
221151	ZE 2: LSB participant address 11 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635B:z14/z16		E	2
221153	ZE 2: LSB participant address 11 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635B:z14/z16		E	1
221154	ZE 2: LSB participant address 11 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635B:z14/z16		E	2
221164	ZE 2: LSB participant address 11 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635B:z14/z16		E	1
221165	ZE 2: LSB participant address 11 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635B:z14/z16		E	2
221166	ZE 2: LSB participant address 11 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635B:z14/z16		E	2
221167	ZE 2: LSB participant address 11 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635B:z14/z16		E	1
221204	ZE 2: LSB participant address 12 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635B:z14/z16		E	1
221205	ZE 2: LSB participant address 12 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635B:z14/z16		E	1
221218	ZE 2: LSB participant address 12 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635B:z14/z16		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
221250	ZE 2: LSB participant address 12 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635B:z14/z16		E	2
221251	ZE 2: LSB participant address 12 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635B:z14/z16		E	2
221253	ZE 2: LSB participant address 12 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635B:z14/z16		E	1
221254	ZE 2: LSB participant address 12 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635B:z14/z16		E	2
221264	ZE 2: LSB participant address 12 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635B:z14/z16		E	1
221265	ZE 2: LSB participant address 12 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635B:z14/z16		E	2
221266	ZE 2: LSB participant address 12 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635B:z14/z16		E	2
221267	ZE 2: LSB participant address 12 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635B:z14/z16		E	1
221804	ZE 2: LSB participant address 18 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635B:z14/z16		E	1
221805	ZE 2: LSB participant address 18 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635B:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
221818	ZE 2: LSB participant address 18 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635B:z14/z16		E	0
221850	ZE 2: LSB participant address 18 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635B:z14/z16		E	2
221851	ZE 2: LSB participant address 18 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635B:z14/z16		E	2
221853	ZE 2: LSB participant address 18 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635B:z14/z16		E	1
221854	ZE 2: LSB participant address 18 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635B:z14/z16		E	2
221864	ZE 2: LSB participant address 18 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635B:z14/z16		E	1
221865	ZE 2: LSB participant address 18 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635B:z14/z16		E	2
221866	ZE 2: LSB participant address 18 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635B:z14/z16		E	2
221867	ZE 2: LSB participant address 18 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635B:z14/z16		E	1
222304	ZE 2: LSB participant address 23 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635B:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
222305	ZE 2: LSB participant address 23 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635B:z14/z16		E	1
222318	ZE 2: LSB participant address 23 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635B:z14/z16		E	0
222350	ZE 2: LSB participant address 23 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635B:z14/z16		E	2
222351	ZE 2: LSB participant address 23 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635B:z14/z16		E	2
222353	ZE 2: LSB participant address 23 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635B:z14/z16		E	1
222354	ZE 2: LSB participant address 23 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635B:z14/z16		E	2
222364	ZE 2: LSB participant address 23 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635B:z14/z16		E	1
222365	ZE 2: LSB participant address 23 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635B:z14/z16		E	2
222366	ZE 2: LSB participant address 23 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635B:z14/z16		E	2
222367	ZE 2: LSB participant address 23 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635B:z14/z16		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
223252	ZE 2: Control data transfer LSB has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X635B:z14/z16		E	0
223255	ZE 2: Control data transfer LSB Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635B:z14/z16		E	2
223256	ZE 2: Control data transfer LSB Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635B:z14/z16		E	2
223257	ZE 2: Control data transfer LSB has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X635B:z14/z16		E	1
223258	ZE 2: Control data transfer LSB recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X635B:z14/z16		E	0
223259	ZE 2: Control data transfer LSB recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X635B:z14/z16		E	0
223260	ZE 2: Control data transfer LSB driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X635B:z14/z16		E	2
223261	ZE 2: Control data transfer LSB driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malf. error will be eliminated by system itself otherwise new Software necessary for error elimination	X635B:z14/z16		E	2
223262	ZE 2: Control data transfer LSB Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X635B:z14/z16		E	2
224814	ZE 2: input 0 short circuit to supply voltage Output of error Check: the sensor line for short-circuits, faulty sensors by pulling out the sensor, connections to the input plate	X635B:d2		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
224856	ZE 2: input 0 open circuit or short circuit to ground Output of error Check: Supply voltage, input LICCON, sensor lines for interruptions, faulty sensors by pulling out the sensor	X635B:d2		E	1
224914	ZE 2: input 1 short circuit to supply voltage Output of error Check: the sensor line for short-circuits, faulty sensors by pulling out the sensor, connections to the input plate	X635B:d4		E	1
224956	ZE 2: input 1 open circuit or short circuit to ground Output of error Check: Supply voltage, input LICCON, sensor lines for interruptions, faulty sensors by pulling out the sensor	X635B:d4		E	1
232000	ZE 2: control winch 1 no slewing movement recognized on actuated winch output of error check LICCON output, lines for short or break, incremental sensor on function, hoisting gear brake			E	1
232002	ZE 2: control winch 1 hydraulic circuit pressure sensor defective/missing if valid winch torque for LMB is available this will be used, otherwise 0 bar is loaded into pressure value memory check supply, LICCON input, sensor lines to short or break, sensor			E	1
232100	ZE 2: control winch 2 no slewing movement recognized on actuated winch output of error check LICCON output, lines for short or break, incremental sensor on function, hoisting gear brake			E	1
232102	ZE 2: control winch 2 hydraulic circuit pressure sensor defective/missing if valid winch torque for LMB is available this will be used, otherwise 0 bar is loaded into pressure value memory check supply, LICCON input, sensor lines to short or break, sensor			E	1
235001	ZE 2: operation winch 1 feed pressure supply missing/too low Operation conditional switch off, may not be shunted Reestablish charge pressure supply - shut-down may not be shunted			B	
235004	ZE 2: operation winch 1 unreeled winch shut-down Operation conditional switch off, may not be shunted reel in winch until the "winch reeled out" switch is no longer actuated - shut-down cannot be shunted			B	
235005	ZE 2: operation winch 1 reeled winch shut-down Operation conditional switch off, may not be shunted reel out winch until the "winch reeled in" switch is no longer actuated -shut-down cannot be shunted			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
235019	ZE 2: operation winch 1 no or invalid operation mode shut-down Operation conditional switch off, may not be shunted enter correct operation mode or dismantle accessory parts - shut-down cannot be shunted			B	
235020	ZE 2: operation winch 1 LMB shut-down operational shut down Remedy cause of "LMB Stop" see error report LMB - shut-down may be shunted via assembly switch (danger).			B	
235021	ZE 2: operation winch 1 Shut-down measuring point 1 > F max - operation operational shut down Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
235022	ZE 2: operation winch 1 Shut-down measuring point 1 > F max - assembly Operation conditional switch off, may not be shunted Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
235024	ZE 2: operation winch 1 Shut-down measuring point 1 < F min and count. utilisation > 50% Operation conditional switch off, may not be shunted Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
235025	ZE 2: operation winch 1 Shut-down measuring point 1 < F min and count. utilisation > 90% Operation conditional switch off, may not be shunted Set down derrick counterweight on ground, if not possible unload derrick counterweight, until forces in desired range			B	
235026	ZE 2: operation winch 1 Shut-down upper limit angle derrick OGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	
235027	ZE 2: operation winch 1 Shut-down lower limit angle derrick UGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	
235029	ZE 2: operation winch 1 winch blocked (C-key monitor) Operation conditional switch off, may not be shunted Authorise winch 1 in control diagram			B	
235030	ZE 2: operation winch 1 master switch 1 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
235033	ZE 2: operation winch 1 Shut-down parallel op. differential path between winches too great Operation conditional switch off, may not be shunted Operate load hook in single operation winches 1 and 2 horizontally and set winches 1 and 2 in parallel operation.			B	
235039	ZE 2: operation winch 1 seat contact shut-down operational shut down Sit down or actuate one of the shunting switches for the seat contact in the master switches.			B	
235050	ZE 2: operation winch 1 end of stroke switch shut-down 1 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
235051	ZE 2: operation winch 1 end of stroke switch shut-down 2 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
235052	ZE 2: operation winch 1 end of stroke switch shut-down 3 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
235081	ZE 2: operation winch 1 end of stroke switch 1 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
235082	ZE 2: operation winch 1 end of stroke switch 2 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
235083	ZE 2: operation winch 1 end of stroke switch 3 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
235101	ZE 2: operation winch 2 feed pressure supply missing/too low Operation conditional switch off, may not be shunted Reestablish charge pressure supply - shut-down may not be shunted			B	
235104	ZE 2: operation winch 2 unreeled winch shut-down Operation conditional switch off, may not be shunted reel in winch until the "winch reeled out" switch is no longer actuated - shut-down cannot be shunted			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
235105	ZE 2: operation winch 2 reeled winch shut-down Operation conditional switch off, may not be shunted reel out winch until the "winch reeled in" switch is no longer actuated -shut-down cannot be shunted			B	
235119	ZE 2: operation winch 2 no or invalid operation mode shut-down Operation conditional switch off, may not be shunted enter correct operation mode or dismantle accessory parts - shut-down cannot be shunted			B	
235120	ZE 2: operation winch 2 LMB shut-down operational shut down Remedy cause of "LMB Stop" see error report LMB - shut-down may be shunted via assembly switch (danger).			B	
235121	ZE 2: operation winch 2 Shut-down measuring point 1 > F max - operation operational shut down Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
235122	ZE 2: operation winch 2 Shut-down measuring point 1 > F max - assembly Operation conditional switch off, may not be shunted Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
235124	ZE 2: operation winch 2 Shut-down measuring point 1 < F min and count. utilisation > 50% Operation conditional switch off, may not be shunted Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
235125	ZE 2: operation winch 2 Shut-down measuring point 1 < F min and count. utilisation > 90% Operation conditional switch off, may not be shunted Set down derrick counterweight on ground, if not possible unload derrick counterweight, until forces in desired range			B	
235126	ZE 2: operation winch 2 Shut-down upper limit angle derrick OGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	
235127	ZE 2: operation winch 2 Shut-down lower limit angle derrick UGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	
235129	ZE 2: operation winch 2 winch blocked (C-key monitor) Operation conditional switch off, may not be shunted Authorise winch 2 in control diagram.			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
235130	ZE 2: operation winch 2 master switch 1 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
235131	ZE 2: operation winch 2 master switch 2 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
235133	ZE 2: operation winch 2 Shut-down parallel op. differential path between winches too great Operation conditional switch off, may not be shunted Operate load hook in single operation winches 1 and 2 horizontally and set winches 1 and 2 in parallel operation.			B	
235139	ZE 2: operation winch 2 seat contact shut-down operational shut down Sit down or actuate one of the shunting switches for the seat contact in the master switches.			B	
235150	ZE 2: operation winch 2 end of stroke switch shut-down 1 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
235151	ZE 2: operation winch 2 end of stroke switch shut-down 2 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
235152	ZE 2: operation winch 2 end of stroke switch shut-down 3 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
235181	ZE 2: operation winch 2 end of stroke switch 1 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
235182	ZE 2: operation winch 2 end of stroke switch 2 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
235183	ZE 2: operation winch 2 end of stroke switch 3 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
236942	ZE 2: Operation crane control Emergency op. crane cont. switched on with start test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
236943	ZE 2: Operation crane control Emergency op. crane control switched on during test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
287252	E/A-Modul 2: Control data transfer LSB-B has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X623:4/6		E	0
287255	E/A-Modul 2: Control data transfer LSB-B Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X623:4/6		E	2
287256	E/A-Modul 2: Control data transfer LSB-B Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X623:4/6		E	2
287257	E/A-Modul 2: Control data transfer LSB-B has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X623:4/6		E	1
287258	E/A-Modul 2: Control data transfer LSB-B recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X623:4/6		E	0
287259	E/A-Modul 2: Control data transfer LSB-B recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X623:4/6		E	0
287260	E/A-Modul 2: Control data transfer LSB-B driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X623:4/6		E	2
287261	E/A-Modul 2: Control data transfer LSB-B driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malf. error will be eliminated by system itself otherwise new Software necessary for error elimination	X623:4/6		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
287262	E/A-Modul 2: Control data transfer LSB-B Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X623:4/6		E	2
300001	ZE 3: system error OS-HC11 (observe parameters) initialising error processor-register erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
300002	ZE 3: system error OS-HC11 (observe parameters) initialising error test total in EPROM/FLASH erroneous no crane operation possible check program memory card or ZE			E	2
300006	ZE 3: system error OS-HC11 (observe parameters) initialising error RAM erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
300007	ZE 3: system error OS-HC11 (observe parameters) UART erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
300010	ZE 3: system error OS-HC11 (observe parameters) system routine inaccessible entry in error memory, all crane movements will be stopped			E	2
300011	ZE 3: system error OS-HC11 (observe parameters) ZE-watchdog expired entry in error memory, all crane movements will be stopped check ZE			E	2
300012	ZE 3: system error OS-HC11 (observe parameters) type-identification in EPROM erroneous entry in error memory, no crane operation possible check program memory card			E	2
300013	ZE 3: system error OS-HC11 (observe parameters) Test sum in FLASH erroneous entry in error memory, all crane movements will be stopped check program memory card			E	2
300014	ZE 3: system error OS-HC11 (observe parameters) program already running entry in error memory, all crane movements will be stopped			E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
300015	ZE 3: system error OS-HC11 (observe parameters) program not available entry in error memory, all crane movements will be stopped			E	2
300016	ZE 3: system error OS-HC11 (observe parameters) system-, driver-watchdog expired entry in error memory, all crane movements will be stopped			E	2
300017	ZE 3: system error OS-HC11 (observe parameters) total of CPU-time distribution too great entry in error memory, all crane movements will be stopped			E	2
300018	ZE 3: system error OS-HC11 (observe parameters) arithmetic overflow (16 Bit) entry in error memory, all crane movements will be stopped			E	2
300019	ZE 3: system error OS-HC11 (observe parameters) division through zero (16 Bit) entry in error memory, all crane movements will be stopped			E	2
300020	ZE 3: system error OS-HC11 (observe parameters) task-watchdog expired entry in error memory, all crane movements will be stopped			E	2
300021	ZE 3: system error OS-HC11 (observe parameters) illegal opcode trap entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
300022	ZE 3: system error OS-HC11 (observe parameters) task inactive entry in error memory, all crane movements will be stopped			E	2
300023	ZE 3: system error OS-HC11 (observe parameters) program incapable of running (type identification) entry in error memory, all crane movements will be stopped			E	2
300024	ZE 3: system error OS-HC11 (observe parameters) task already used entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
300025	ZE 3: system error OS-HC11 (observe parameters) realtime-module already used entry in error memory, all crane movements will be stopped			E	2
300026	ZE 3: system error OS-HC11 (observe parameters) regulator-module already used entry in error memory, all crane movements will be stopped			E	2
300030	ZE 3: system error OS-HC11 (observe parameters) unacceptable bank address entry in error memory, all crane movements will be stopped			E	2
300041	ZE 3: system error OS-HC11 (observe parameters) arithmetic error entry in error memory, all crane movements will be stopped			E	2
300044	ZE 3: system error OS-HC11 (observe parameters) output parameter without effect, from inactive output entry in error memory, all crane movements will be stopped			E	2
300045	ZE 3: system error OS-HC11 (observe parameters) entry parameter undefined, from inactive input entry in error memory, all crane movements will be stopped			E	2
300046	ZE 3: system error OS-HC11 (observe parameters) impermissible regulator parameter entry in error memory, all crane movements will be stopped			E	2
300047	ZE 3: system error OS-HC11 (observe parameters) realtime-control block not available entry in error memory, all crane movements will be stopped			E	2
300048	ZE 3: system error OS-HC11 (observe parameters) realtime-control block inactive entry in error memory, all crane movements will be stopped			E	2
300049	ZE 3: system error OS-HC11 (observe parameters) urgent modul, ZE not available entry in error memory, no crane operation possible check ZE			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
300050	ZE 3: system error OS-HC11 (observe parameters) file not available entry in error memory, all crane movements will be stopped			E	2
300051	ZE 3: system error OS-HC11 (observe parameters) file already opened entry in error memory, all crane movements will be stopped			E	2
300052	ZE 3: system error OS-HC11 (observe parameters) file not open on close entry in error memory, all crane movements will be stopped			E	2
300053	ZE 3: system error OS-HC11 (observe parameters) system mask not available entry in error memory, all crane movements will be stopped			E	2
300054	ZE 3: system error OS-HC11 (observe parameters) system text not available entry in error memory, all crane movements will be stopped			E	2
300055	ZE 3: system error OS-HC11 (observe parameters) symbol not available entry in error memory, all crane movements will be stopped			E	2
300056	ZE 3: system error OS-HC11 (observe parameters) invalid mark in symbol entry in error memory, all crane movements will be stopped			E	2
300057	ZE 3: system error OS-HC11 (observe parameters) default load chart missing entry in error memory, all crane movements will be stopped			E	2
300058	ZE 3: system error OS-HC11 (observe parameters) amplifier erroneous or return power feed entry in error memory, all crane movements will be stopped check wiring			E	2
300059	ZE 3: system error OS-HC11 (observe parameters) subroutine not reentrant entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
300060	ZE 3: system error OS-HC11 (observe parameters) transmission error SCI entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
300061	ZE 3: system error OS-HC11 (observe parameters) SCI-BREAK entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
300062	ZE 3: system error OS-HC11 (observe parameters) SCI not connected entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
300063	ZE 3: system error OS-HC11 (observe parameters) monitor error in operation entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
300065	ZE 3: system error OS-HC11 (observe parameters) impermissible bus address entry in error memory, all crane movements will be stopped			E	2
300066	ZE 3: system error OS-HC11 (observe parameters) ADC working outside the permissible tolerance entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
300067	ZE 3: system error OS-HC11 (observe parameters) arithmetic processor not available entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
300068	ZE 3: system error OS-HC11 (observe parameters) impermissible interrupt entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
300070	ZE 3: system error OS-HC11 (observe parameters) various structure versions entry in error memory, no crane operation possible			E	2
300071	ZE 3: system error OS-HC11 (observe parameters) Structure file missing or faulty entry in error memory, no crane operation possible			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
300072	ZE 3: system error OS-HC11 (observe parameters) structure entry senseless entry in error memory, no crane operation possible			E	2
300073	ZE 3: system error OS-HC11 (observe parameters) interpreter error entry in error memory, all crane movements will be stopped			E	2
300074	ZE 3: system error OS-HC11 (observe parameters) transformation ASCII to BIN erroneous entry in error memory, all crane movements will be stopped			E	2
300075	ZE 3: system error OS-HC11 (observe parameters) SPI-error entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
300076	ZE 3: system error OS-HC11 (observe parameters) incorrectly inserted power unit entry in error memory, all crane movements will be stopped check memory card in power supply unit			E	2
300077	ZE 3: system error OS-HC11 (observe parameters) BAF-call-up erroneous entry in error memory, all crane movements will be stopped			E	2
300078	ZE 3: system error OS-HC11 (observe parameters) impermissible parameter entry in error memory, all crane movements will be stopped			E	2
300079	ZE 3: system error OS-HC11 (observe parameters) no right of access entry in error memory, all crane movements will be stopped			E	2
300080	ZE 3: system error OS-HC11 (observe parameters) Fatal internal error entry in error memory, all crane movements will be stopped			E	2
300081	ZE 3: system error OS-HC11 (observe parameters) stack overflow entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
300082	ZE 3: system error OS-HC11 (observe parameters) hardware-watchdog erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
300094	ZE 3: system error OS-HC11 (observe parameters) transmission error parallel bus entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
300095	ZE 3: system error OS-HC11 (observe parameters) DMA-error entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
300099	ZE 3: system error OS-HC11 (observe parameters) DSP0 erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
302001	ZE 3: system error OS-TMS initialising error processor-register erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
302002	ZE 3: system error OS-TMS initialising error test total in EPROM/FLASH erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
302006	ZE 3: system error OS-TMS initialising error RAM erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
302007	ZE 3: system error OS-TMS UART erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
302020	ZE 3: system error OS-TMS task-watchdog expired entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
302021	ZE 3: system error OS-TMS illegal opcode trap entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
302082	ZE 3: system error OS-TMS hardware-watchdog erroneous entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
310012	ZE 3: output 0 short circuit to ground	X73:16		E	1
310013	ZE 3: output 0 open signal circuits	X73:16		E	1
310014	ZE 3: output 0 short circuit to supply voltage	X73:16		E	1
310054	ZE 3: output 0 short circuit to supply voltage	X73:16		E	1
310058	ZE 3: output 0 positive switching transistor: disruption	X73:16		E	1
310060	ZE 3: output 0 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X73:16		E	1
310062	ZE 3: output 0 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X73:16		E	1
310063	ZE 3: output 0 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X73:16		E	1
310070	ZE 3: output 0 measuring system defect no crane operation possible entry in error list	X73:16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
310071	ZE 3: output 0 short circuit to ground or transistor defect	X73:16		E	1
310072	ZE 3: output 0 outside source feeding	X73:16		E	1
310073	ZE 3: output 0 open circuit or short circuit to supply voltage/ground	X73:16		E	1
310112	ZE 3: output 1 short circuit to ground	X73:17		E	1
310113	ZE 3: output 1 open signal circuits	X73:17		E	1
310114	ZE 3: output 1 short circuit to supply voltage	X73:17		E	1
310154	ZE 3: output 1 short circuit to supply voltage	X73:17		E	1
310158	ZE 3: output 1 positive switching transistor: disruption	X73:17		E	1
310160	ZE 3: output 1 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X73:17		E	1
310162	ZE 3: output 1 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X73:17		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
310163	ZE 3: output 1 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X73:17		E	1
310170	ZE 3: output 1 measuring system defect no crane operation possible entry in error list	X73:17		E	1
310171	ZE 3: output 1 short circuit to ground or transistor defect	X73:17		E	1
310172	ZE 3: output 1 outside source feeding	X73:17		E	1
310173	ZE 3: output 1 open circuit or short circuit to supply voltage/ground	X73:17		E	1
310212	ZE 3: output 2 short circuit to ground	X73:18		E	1
310213	ZE 3: output 2 open signal circuits	X73:18		E	1
310214	ZE 3: output 2 short circuit to supply voltage	X73:18		E	1
310254	ZE 3: output 2 short circuit to supply voltage	X73:18		E	1
310258	ZE 3: output 2 positive switching transistor: disruption	X73:18		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
310270	ZE 3: output 2 measuring system defect no crane operation possible entry in error list	X73:18		E	1
310271	ZE 3: output 2 short circuit to ground or transistor defect	X73:18		E	1
310272	ZE 3: output 2 outside source feeding	X73:18		E	1
310273	ZE 3: output 2 open circuit or short circuit to supply voltage/ground	X73:18		E	1
310312	ZE 3: output 3 short circuit to ground	X73:19		E	1
310313	ZE 3: output 3 open signal circuits	X73:19		E	1
310314	ZE 3: output 3 short circuit to supply voltage	X73:19		E	1
310354	ZE 3: output 3 short circuit to supply voltage	X73:19		E	1
310358	ZE 3: output 3 positive switching transistor: disruption	X73:19		E	1
310360	ZE 3: output 3 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X73:19		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
310362	ZE 3: output 3 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X73:19		E	1
310363	ZE 3: output 3 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X73:19		E	1
310370	ZE 3: output 3 measuring system defect no crane operation possible entry in error list	X73:19		E	1
310371	ZE 3: output 3 short circuit to ground or transistor defect	X73:19		E	1
310372	ZE 3: output 3 outside source feeding	X73:19		E	1
310373	ZE 3: output 3 open circuit or short circuit to supply voltage/ground	X73:19		E	1
310412	ZE 3: output 4 short circuit to ground	X73:20		E	1
310413	ZE 3: output 4 open signal circuits	X73:20		E	1
310414	ZE 3: output 4 short circuit to supply voltage	X73:20		E	1
310454	ZE 3: output 4 short circuit to supply voltage	X73:20		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
310458	ZE 3: output 4 positive switching transistor: disruption	X73:20		E	1
310460	ZE 3: output 4 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X73:20		E	1
310462	ZE 3: output 4 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X73:20		E	1
310463	ZE 3: output 4 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X73:20		E	1
310470	ZE 3: output 4 measuring system defect no crane operation possible entry in error list	X73:20		E	1
310471	ZE 3: output 4 short circuit to ground or transistor defect	X73:20		E	1
310472	ZE 3: output 4 outside source feeding	X73:20		E	1
310473	ZE 3: output 4 open circuit or short circuit to supply voltage/ground	X73:20		E	1
310512	ZE 3: output 5 short circuit to ground	X73:21		E	1
310513	ZE 3: output 5 open signal circuits	X73:21		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
310514	ZE 3: output 5 short circuit to supply voltage	X73:21		E	1
310554	ZE 3: output 5 short circuit to supply voltage	X73:21		E	1
310558	ZE 3: output 5 positive switching transistor: disruption	X73:21		E	1
310560	ZE 3: output 5 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X73:21		E	1
310562	ZE 3: output 5 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X73:21		E	1
310563	ZE 3: output 5 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X73:21		E	1
310570	ZE 3: output 5 measuring system defect no crane operation possible entry in error list	X73:21		E	1
310571	ZE 3: output 5 short circuit to ground or transistor defect	X73:21		E	1
310572	ZE 3: output 5 outside source feeding	X73:21		E	1
310573	ZE 3: output 5 open circuit or short circuit to supply voltage/ground	X73:21		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
310612	ZE 3: output 6 short circuit to ground	X73:22		E	1
310613	ZE 3: output 6 open signal circuits	X73:22		E	1
310614	ZE 3: output 6 short circuit to supply voltage	X73:22		E	1
310654	ZE 3: output 6 short circuit to supply voltage	X73:22		E	1
310658	ZE 3: output 6 positive switching transistor: disruption	X73:22		E	1
310670	ZE 3: output 6 measuring system defect no crane operation possible entry in error list	X73:22		E	1
310671	ZE 3: output 6 short circuit to ground or transistor defect	X73:22		E	1
310672	ZE 3: output 6 outside source feeding	X73:22		E	1
310673	ZE 3: output 6 open circuit or short circuit to supply voltage/ground	X73:22		E	1
310712	ZE 3: output 7 short circuit to ground	X73:23		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
310713	ZE 3: output 7 open signal circuits	X73:23		E	1
310714	ZE 3: output 7 short circuit to supply voltage	X73:23		E	1
310754	ZE 3: output 7 short circuit to supply voltage	X73:23		E	1
310758	ZE 3: output 7 positive switching transistor: disruption	X73:23		E	1
310760	ZE 3: output 7 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X73:23		E	1
310762	ZE 3: output 7 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X73:23		E	1
310763	ZE 3: output 7 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X73:23		E	1
310770	ZE 3: output 7 measuring system defect no crane operation possible entry in error list	X73:23		E	1
310771	ZE 3: output 7 short circuit to ground or transistor defect	X73:23		E	1
310772	ZE 3: output 7 outside source feeding	X73:23		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
310773	ZE 3: output 7 open circuit or short circuit to supply voltage/ground	X73:23		E	1
314959	ZE 3: all output supply voltage missing	X73		E	1
315059	ZE 3: output group 0 supply voltage missing	X73:12		E	1
315159	ZE 3: output group 1 supply voltage missing	X73:24		E	1
315259	ZE 3: output group 2 supply voltage missing	X73:25		E	1
315359	ZE 3: output group 3 supply voltage missing	X73:13		E	1
320004	ZE 3: LSB participant address 0 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
320005	ZE 3: LSB participant address 0 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
320018	ZE 3: LSB participant address 0 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
320050	ZE 3: LSB participant address 0 reports an incorrect sensor type  Check Bus configuration in LSB test system, remove faulty / incorrect users from Bus	X635C:z14/z16		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
320050	ZE 3: LSB participant address 0 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
320051	ZE 3: LSB participant address 0 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
320053	ZE 3: LSB participant address 0 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
320054	ZE 3: LSB participant address 0 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
320064	ZE 3: LSB participant address 0 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
320065	ZE 3: LSB participant address 0 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
320066	ZE 3: LSB participant address 0 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
320067	ZE 3: LSB participant address 0 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
320104	ZE 3: LSB participant address 1 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
320105	ZE 3: LSB participant address 1 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
320118	ZE 3: LSB participant address 1 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
320150	ZE 3: LSB participant address 1 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
320151	ZE 3: LSB participant address 1 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
320153	ZE 3: LSB participant address 1 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
320154	ZE 3: LSB participant address 1 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
320164	ZE 3: LSB participant address 1 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
320165	ZE 3: LSB participant address 1 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
320166	ZE 3: LSB participant address 1 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
320167	ZE 3: LSB participant address 1 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
320904	ZE 3: LSB participant address 9 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
320905	ZE 3: LSB participant address 9 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
320918	ZE 3: LSB participant address 9 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
320950	ZE 3: LSB participant address 9 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
320951	ZE 3: LSB participant address 9 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
320953	ZE 3: LSB participant address 9 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
320954	ZE 3: LSB participant address 9 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
320964	ZE 3: LSB participant address 9 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
320965	ZE 3: LSB participant address 9 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
320966	ZE 3: LSB participant address 9 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
320967	ZE 3: LSB participant address 9 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321004	ZE 3: LSB participant address 10 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
321005	ZE 3: LSB participant address 10 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
321018	ZE 3: LSB participant address 10 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
321050	ZE 3: LSB participant address 10 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
321051	ZE 3: LSB participant address 10 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
321053	ZE 3: LSB participant address 10 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
321054	ZE 3: LSB participant address 10 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
321064	ZE 3: LSB participant address 10 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
321065	ZE 3: LSB participant address 10 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
321066	ZE 3: LSB participant address 10 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321067	ZE 3: LSB participant address 10 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
321104	ZE 3: LSB participant address 11 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
321105	ZE 3: LSB participant address 11 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
321118	ZE 3: LSB participant address 11 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
321150	ZE 3: LSB participant address 11 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
321151	ZE 3: LSB participant address 11 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
321153	ZE 3: LSB participant address 11 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
321154	ZE 3: LSB participant address 11 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
321164	ZE 3: LSB participant address 11 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
321165	ZE 3: LSB participant address 11 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321166	ZE 3: LSB participant address 11 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
321167	ZE 3: LSB participant address 11 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
321204	ZE 3: LSB participant address 12 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
321205	ZE 3: LSB participant address 12 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
321218	ZE 3: LSB participant address 12 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
321250	ZE 3: LSB participant address 12 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
321251	ZE 3: LSB participant address 12 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
321253	ZE 3: LSB participant address 12 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
321254	ZE 3: LSB participant address 12 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
321264	ZE 3: LSB participant address 12 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321265	ZE 3: LSB participant address 12 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
321266	ZE 3: LSB participant address 12 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
321267	ZE 3: LSB participant address 12 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
321304	ZE 3: LSB participant address 13 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
321305	ZE 3: LSB participant address 13 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
321318	ZE 3: LSB participant address 13 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
321350	ZE 3: LSB participant address 13 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
321351	ZE 3: LSB participant address 13 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
321353	ZE 3: LSB participant address 13 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
321354	ZE 3: LSB participant address 13 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321364	ZE 3: LSB participant address 13 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
321365	ZE 3: LSB participant address 13 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
321366	ZE 3: LSB participant address 13 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
321367	ZE 3: LSB participant address 13 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
321504	ZE 3: LSB participant address 15 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
321505	ZE 3: LSB participant address 15 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
321518	ZE 3: LSB participant address 15 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
321550	ZE 3: LSB participant address 15 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
321551	ZE 3: LSB participant address 15 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
321553	ZE 3: LSB participant address 15 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321554	ZE 3: LSB participant address 15 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
321564	ZE 3: LSB participant address 15 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
321565	ZE 3: LSB participant address 15 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
321566	ZE 3: LSB participant address 15 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
321567	ZE 3: LSB participant address 15 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
321604	ZE 3: LSB participant address 16 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
321605	ZE 3: LSB participant address 16 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
321618	ZE 3: LSB participant address 16 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
321650	ZE 3: LSB participant address 16 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
321651	ZE 3: LSB participant address 16 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321653	ZE 3: LSB participant address 16 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
321654	ZE 3: LSB participant address 16 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
321664	ZE 3: LSB participant address 16 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
321665	ZE 3: LSB participant address 16 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
321666	ZE 3: LSB participant address 16 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
321667	ZE 3: LSB participant address 16 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
321704	ZE 3: LSB participant address 17 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
321705	ZE 3: LSB participant address 17 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
321718	ZE 3: LSB participant address 17 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
321750	ZE 3: LSB participant address 17 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321751	ZE 3: LSB participant address 17 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
321753	ZE 3: LSB participant address 17 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
321754	ZE 3: LSB participant address 17 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
321764	ZE 3: LSB participant address 17 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
321765	ZE 3: LSB participant address 17 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
321766	ZE 3: LSB participant address 17 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
321767	ZE 3: LSB participant address 17 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
321804	ZE 3: LSB participant address 18 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
321805	ZE 3: LSB participant address 18 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
321818	ZE 3: LSB participant address 18 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321850	ZE 3: LSB participant address 18 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
321851	ZE 3: LSB participant address 18 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
321853	ZE 3: LSB participant address 18 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
321854	ZE 3: LSB participant address 18 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
321864	ZE 3: LSB participant address 18 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
321865	ZE 3: LSB participant address 18 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
321866	ZE 3: LSB participant address 18 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
321867	ZE 3: LSB participant address 18 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
321904	ZE 3: LSB participant address 19 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
321905	ZE 3: LSB participant address 19 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
321918	ZE 3: LSB participant address 19 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
321950	ZE 3: LSB participant address 19 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
321951	ZE 3: LSB participant address 19 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
321953	ZE 3: LSB participant address 19 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
321954	ZE 3: LSB participant address 19 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
321964	ZE 3: LSB participant address 19 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
321965	ZE 3: LSB participant address 19 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
321966	ZE 3: LSB participant address 19 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
321967	ZE 3: LSB participant address 19 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
322004	ZE 3: LSB participant address 20 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322005	ZE 3: LSB participant address 20 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
322018	ZE 3: LSB participant address 20 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
322050	ZE 3: LSB participant address 20 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
322051	ZE 3: LSB participant address 20 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
322053	ZE 3: LSB participant address 20 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
322054	ZE 3: LSB participant address 20 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
322064	ZE 3: LSB participant address 20 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
322065	ZE 3: LSB participant address 20 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
322066	ZE 3: LSB participant address 20 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
322067	ZE 3: LSB participant address 20 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322104	ZE 3: LSB participant address 21 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
322105	ZE 3: LSB participant address 21 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
322118	ZE 3: LSB participant address 21 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
322150	ZE 3: LSB participant address 21 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
322151	ZE 3: LSB participant address 21 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
322153	ZE 3: LSB participant address 21 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
322154	ZE 3: LSB participant address 21 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
322164	ZE 3: LSB participant address 21 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
322165	ZE 3: LSB participant address 21 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
322166	ZE 3: LSB participant address 21 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322167	ZE 3: LSB participant address 21 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
322204	ZE 3: LSB participant address 22 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
322205	ZE 3: LSB participant address 22 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
322218	ZE 3: LSB participant address 22 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
322250	ZE 3: LSB participant address 22 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
322251	ZE 3: LSB participant address 22 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
322253	ZE 3: LSB participant address 22 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
322254	ZE 3: LSB participant address 22 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
322264	ZE 3: LSB participant address 22 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
322265	ZE 3: LSB participant address 22 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322266	ZE 3: LSB participant address 22 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
322267	ZE 3: LSB participant address 22 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
322304	ZE 3: LSB participant address 23 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
322305	ZE 3: LSB participant address 23 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
322318	ZE 3: LSB participant address 23 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
322350	ZE 3: LSB participant address 23 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
322351	ZE 3: LSB participant address 23 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
322353	ZE 3: LSB participant address 23 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
322354	ZE 3: LSB participant address 23 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
322364	ZE 3: LSB participant address 23 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322365	ZE 3: LSB participant address 23 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
322366	ZE 3: LSB participant address 23 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
322367	ZE 3: LSB participant address 23 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
322404	ZE 3: LSB participant address 24 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
322405	ZE 3: LSB participant address 24 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
322418	ZE 3: LSB participant address 24 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
322450	ZE 3: LSB participant address 24 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
322451	ZE 3: LSB participant address 24 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
322453	ZE 3: LSB participant address 24 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
322454	ZE 3: LSB participant address 24 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322464	ZE 3: LSB participant address 24 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
322465	ZE 3: LSB participant address 24 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
322466	ZE 3: LSB participant address 24 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
322467	ZE 3: LSB participant address 24 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
322504	ZE 3: LSB participant address 25 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
322505	ZE 3: LSB participant address 25 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
322518	ZE 3: LSB participant address 25 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
322550	ZE 3: LSB participant address 25 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
322551	ZE 3: LSB participant address 25 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
322553	ZE 3: LSB participant address 25 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322554	ZE 3: LSB participant address 25 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
322564	ZE 3: LSB participant address 25 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
322565	ZE 3: LSB participant address 25 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
322566	ZE 3: LSB participant address 25 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
322567	ZE 3: LSB participant address 25 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
322604	ZE 3: LSB participant address 26 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
322605	ZE 3: LSB participant address 26 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
322618	ZE 3: LSB participant address 26 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
322650	ZE 3: LSB participant address 26 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
322651	ZE 3: LSB participant address 26 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322653	ZE 3: LSB participant address 26 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
322654	ZE 3: LSB participant address 26 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
322664	ZE 3: LSB participant address 26 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
322665	ZE 3: LSB participant address 26 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
322666	ZE 3: LSB participant address 26 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
322667	ZE 3: LSB participant address 26 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
322704	ZE 3: LSB participant address 27 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
322705	ZE 3: LSB participant address 27 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
322718	ZE 3: LSB participant address 27 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0
322750	ZE 3: LSB participant address 27 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322751	ZE 3: LSB participant address 27 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
322753	ZE 3: LSB participant address 27 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
322754	ZE 3: LSB participant address 27 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
322764	ZE 3: LSB participant address 27 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
322765	ZE 3: LSB participant address 27 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
322766	ZE 3: LSB participant address 27 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
322767	ZE 3: LSB participant address 27 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
322804	ZE 3: LSB participant address 28 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635C:z14/z16		E	1
322805	ZE 3: LSB participant address 28 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635C:z14/z16		E	1
322818	ZE 3: LSB participant address 28 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635C:z14/z16		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
322850	ZE 3: LSB participant address 28 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635C:z14/z16		E	2
322851	ZE 3: LSB participant address 28 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635C:z14/z16		E	2
322853	ZE 3: LSB participant address 28 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635C:z14/z16		E	1
322854	ZE 3: LSB participant address 28 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635C:z14/z16		E	2
322864	ZE 3: LSB participant address 28 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635C:z14/z16		E	1
322865	ZE 3: LSB participant address 28 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635C:z14/z16		E	2
322866	ZE 3: LSB participant address 28 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635C:z14/z16		E	2
322867	ZE 3: LSB participant address 28 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635C:z14/z16		E	1
323252	ZE 3: Control data transfer LSB has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X635C:z14/z16		E	0
323255	ZE 3: Control data transfer LSB Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635C:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
323256	ZE 3: Control data transfer LSB Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635C:z14/z16		E	2
323257	ZE 3: Control data transfer LSB has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X635C:z14/z16		E	1
323258	ZE 3: Control data transfer LSB recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X635C:z14/z16		E	0
323259	ZE 3: Control data transfer LSB recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X635C:z14/z16		E	0
323260	ZE 3: Control data transfer LSB driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X635C:z14/z16		E	2
323261	ZE 3: Control data transfer LSB driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malf. error will be eliminated by system itself otherwise new Software necessary for error elimination	X635C:z14/z16		E	2
323262	ZE 3: Control data transfer LSB Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X635C:z14/z16		E	2
324814	ZE 3: input 0 short circuit to supply voltage Output of error Check: the sensor line for short-circuits, faulty sensors by pulling out the sensor, connections to the input plate	X635C:d2		E	1
324856	ZE 3: input 0 open circuit or short circuit to ground Output of error Check: Supply voltage, input LICCON, sensor lines for interruptions, faulty sensors by pulling out the sensor	X635C:d2		E	1
324914	ZE 3: input 1 short circuit to supply voltage Output of error Check: the sensor line for short-circuits, faulty sensors by pulling out the sensor, connections to the input plate	X635C:d4		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
324956	ZE 3: input 1 open circuit or short circuit to ground Output of error Check: Supply voltage, input LICCON, sensor lines for interruptions, faulty sensors by pulling out the sensor	X635C:d4		E	1
332200	ZE 3: control winch 3 no slewing movement recognized on actuated winch output of error check LICCON output, lines for short or break, incremental sensor on function, hoisting gear brake			E	1
332202	ZE 3: control winch 3 hydraulic circuit pressure sensor defective/missing if valid winch torque for LMB is available this will be used, otherwise 0 bar is loaded into pressure value memory check supply, LICCON input, sensor lines to short or break, sensor			E	1
332300	ZE 3: control winch 4 no slewing movement recognized on actuated winch output of error check LICCON output, lines for short or break, incremental sensor on function, hoisting gear brake			E	1
332302	ZE 3: control winch 4 hydraulic circuit pressure sensor defective/missing if valid winch torque for LMB is available this will be used, otherwise 0 bar is loaded into pressure value memory check supply, LICCON input, sensor lines to short or break, sensor			E	1
332500	ZE 3: control winch 6 no slewing movement recognized on actuated winch output of error check LICCON output, lines for short or break, incremental sensor on function, hoisting gear brake			E	1
332502	ZE 3: control winch 6 hydraulic circuit pressure sensor defective/missing if valid winch torque for LMB is available this will be used, otherwise 0 bar is loaded into pressure value memory check supply, LICCON input, sensor lines to short or break, sensor			E	1
335201	ZE 3: operation winch 3 feed pressure supply missing/too low Operation conditional switch off, may not be shunted Reestablish charge pressure supply - shut-down may not be shunted			B	
335203	ZE 3: operation winch 3 Shut-down jib lower Operation conditional switch off, may not be shunted luff main boom down until limit switch is no longer activated - shut-down cannot be shunted			B	
335204	ZE 3: operation winch 3 unreeled winch shut-down Operation conditional switch off, may not be shunted reel in winch until the "winch reeled out" switch is no longer actuated - shut-down cannot be shunted			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335205	ZE 3: operation winch 3 reeled winch shut-down Operation conditional switch off, may not be shunted reel out winch until the "winch reeled in" switch is no longer actuated -shut-down cannot be shunted			B	
335206	ZE 3: operation winch 3 upper angle limit OGW shut-down operational shut down reel winch out until the radius is within the load chart again - shut-down can be shunted (danger)			B	
335207	ZE 3: operation winch 3 lower angle limit UGW shut-down operational shut down reel winch in until the radius is within the load chart again - shut-down can be shunted (danger)			B	
335208	ZE 3: operation winch 3 luffing up main boom shut-down working area limitation ABB operational shut down reel winch out until crane in working area again - shunting through shutting down of working area limitation			B	
335209	ZE 3: operation winch 3 luffing down main boom shut-down working area limitation ABB operational shut down reel winch in until crane in working area again - shunting through shutting down of working area limitation			B	
335210	ZE 3: operation winch 3 fly jib upper stop shut-down Operation conditional switch off, may not be shunted luff main boom up until limit switch is no longer activated - shut-down cannot be shunted			B	
335211	ZE 3: operation winch 3 fly jib upper flap shut-down Operation conditional switch off, may not be shunted luff main boom up until limit switch is no longer activated - shut-down cannot be shunted			B	
335213	ZE 3: operation winch 3 shut-down as flap not positioned and angle threshold exceeded Operation conditional switch off, may not be shunted check as to why the flap is not in position - shut-down cannot be shunted			B	
335219	ZE 3: operation winch 3 no or invalid operation mode shut-down Operation conditional switch off, may not be shunted enter correct operation mode or dismantle accessory parts - shut-down cannot be shunted			B	
335220	ZE 3: operation winch 3 LMB shut-down operational shut down Remedy cause of "LMB Stop" see error report LMB - shut-down may be shunted via assembly switch (danger).			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335221	ZE 3: operation winch 3 Shut-down measuring point 1 > F max - operation operational shut down Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
335222	ZE 3: operation winch 3 Shut-down measuring point 1 > F max - assembly Operation conditional switch off, may not be shunted Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
335224	ZE 3: operation winch 3 Shut-down measuring point 1 < F min and count. utilisation > 50% Operation conditional switch off, may not be shunted Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
335226	ZE 3: operation winch 3 Shut-down upper limit angle derrick OGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	
335227	ZE 3: operation winch 3 Shut-down lower limit angle derrick UGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	
335228	ZE 3: operation winch 3 Shut-down upper limit angle main boom operational shut down Wind on winch until limit angle is fallen short of - shut-down may be shunted (danger).			B	
335229	ZE 3: operation winch 3 winch blocked (C-key monitor) Operation conditional switch off, may not be shunted Authorise winch 3 in control diagram.			B	
335230	ZE 3: operation winch 3 master switch 1 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
335232	ZE 3: operation winch 3 master switch 3 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
335234	ZE 3: operation winch 3 Shut-down limit angle main boom - derrick Operation conditional switch off, may not be shunted Wind on winch until limit angle is fallen short of - shut-down may be shunted.			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335239	ZE 3: operation winch 3 seat contact shut-down operational shut down Sit down or actuate one of the shunting switches for the seat contact in the master switches.			B	
335250	ZE 3: operation winch 3 end of stroke switch shut-down 1 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
335251	ZE 3: operation winch 3 end of stroke switch shut-down 2 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
335252	ZE 3: operation winch 3 end of stroke switch shut-down 3 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
335254	ZE 3: operation winch 3 Shut-down overtopping guard cylinder main boom in bump stop Operation conditional switch off, may not be shunted luff main boom down until limit switch is no longer activated - shut-down cannot be shunted			B	
335257	ZE 3: operation winch 3 Shut-down press. SA-frame overtop guard cylinder < minimal press. Operation conditional switch off, may not be shunted Re-establish pressure supply SA-frame - luffing down of main boom possible.			B	
335270	ZE 3: operation winch 3 shut-down both limit switches "flap in position" defect./missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335272	ZE 3: operation winch 3 shut-down both angle sensors "fly jib" defective/missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335273	ZE 3: operation winch 3 shut-down both limit switches "lower fly jib" defective/missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335274	ZE 3: operation winch 3 shut-down both limit switches "upper fly jib flap" defect./missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335275	ZE 3: operation winch 3 shut-down both limit switches "upper fly jib stop"defect./missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335281	ZE 3: operation winch 3 end of stroke switch 1 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
335282	ZE 3: operation winch 3 end of stroke switch 2 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
335283	ZE 3: operation winch 3 end of stroke switch 3 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
335285	ZE 3: operation winch 3 Shut-down limit switch right "RFP main boom" faulty / not present Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335286	ZE 3: operation winch 3 Shut-down limit switch "RFP Main boom" links faulty / not present Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335301	ZE 3: operation winch 4 feed pressure supply missing/too low Operation conditional switch off, may not be shunted Reestablish charge pressure supply - shut-down may not be shunted			B	
335303	ZE 3: operation winch 4 Shut-down jib lower Operation conditional switch off, may not be shunted luff main boom down until limit switch is no longer activated - shut-down cannot be shunted			B	
335306	ZE 3: operation winch 4 upper angle limit OGW shut-down operational shut down reel winch out until the radius is within the load chart again - shut-down can be shunted (danger)			B	
335307	ZE 3: operation winch 4 lower angle limit UGW shut-down operational shut down reel winch in until the radius is within the load chart again - shut-down can be shunted (danger)			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335308	ZE 3: operation winch 4 luffing up main boom shut-down working area limitation ABB operational shut down reel winch out until crane in working area again - shunting through shutting down of working area limitation			B	
335309	ZE 3: operation winch 4 luffing down main boom shut-down working area limitation ABB operational shut down reel winch in until crane in working area again - shunting through shutting down of working area limitation			B	
335310	ZE 3: operation winch 4 fly jib upper stop shut-down Operation conditional switch off, may not be shunted luff main boom up until limit switch is no longer activated - shut-down cannot be shunted			B	
335311	ZE 3: operation winch 4 fly jib upper flap shut-down Operation conditional switch off, may not be shunted luff main boom up until limit switch is no longer activated - shut-down cannot be shunted			B	
335313	ZE 3: operation winch 4 shut-down as flap not positioned and angle threshold exceeded Operation conditional switch off, may not be shunted check as to why the flap is not in position - shut-down cannot be shunted			B	
335318	ZE 3: operation winch 4 Shut-down measuring point 1 < F min operational shut down Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
335319	ZE 3: operation winch 4 no or invalid operation mode shut-down Operation conditional switch off, may not be shunted enter correct operation mode or dismantle accessory parts - shut-down cannot be shunted			B	
335320	ZE 3: operation winch 4 LMB shut-down operational shut down Remedy cause of "LMB Stop" see error report LMB - shut-down may be shunted via assembly switch (danger).			B	
335321	ZE 3: operation winch 4 Shut-down measuring point 1 > F max - operation operational shut down Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
335322	ZE 3: operation winch 4 Shut-down measuring point 1 > F max - assembly Operation conditional switch off, may not be shunted Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335324	ZE 3: operation winch 4 Shut-down measuring point 1 < F min and count. utilisation > 50% Operation conditional switch off, may not be shunted Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
335325	ZE 3: operation winch 4 Shut-down measuring point 1 < F min and count. utilisation > 90% Operation conditional switch off, may not be shunted Set down derrick counterweight on ground, if not possible unload derrick counterweight, until forces in desired range			B	
335326	ZE 3: operation winch 4 Shut-down upper limit angle derrick OGWD operational shut down Wind on winch until derrick boom is in operating position - shut-down may be shunted (danger).			B	
335327	ZE 3: operation winch 4 Shut-down lower limit angle derrick UGWD operational shut down Wind off winch until derrick boom is in operating position - shut-down may be shunted (danger).			B	
335328	ZE 3: operation winch 4 Shut-down upper limit angle main boom operational shut down Wind on winch until limit angle is fallen short of - shut-down may be shunted (danger).			B	
335329	ZE 3: operation winch 4 winch blocked (C-key monitor) Operation conditional switch off, may not be shunted Authorise winch 4 in control diagram.			B	
335330	ZE 3: operation winch 4 master switch 1 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
335332	ZE 3: operation winch 4 master switch 3 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
335339	ZE 3: operation winch 4 seat contact shut-down operational shut down Sit down or actuate one of the shunting switches for the seat contact in the master switches.			B	
335350	ZE 3: operation winch 4 end of stroke switch shut-down 1 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335351	ZE 3: operation winch 4 end of stroke switch shut-down 2 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
335352	ZE 3: operation winch 4 end of stroke switch shut-down 3 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
335354	ZE 3: operation winch 4 Shut-down overtopping guard cylinder main boom in bump stop Operation conditional switch off, may not be shunted luff main boom down until limit switch is no longer activated - shut-down cannot be shunted			B	
335355	ZE 3: operation winch 4 Shut-down overtopping guard cylinder derrick boom in bump stop Operation conditional switch off, may not be shunted Luff down derrick boom until limit switch no longer activated - Shut-down may not be shunted			B	
335356	ZE 3: operation winch 4 Shut-down angle SA-frame < minimal angle Operation conditional switch off, may not be shunted luff main boom up until limit switch is no longer activated - shut-down cannot be shunted			B	
335357	ZE 3: operation winch 4 Shut-down press. SA-frame overtop guard cylinder < minimal press. Operation conditional switch off, may not be shunted Re-establish pressure supply SA-frame - shut-down may not be shunted.			B	
335370	ZE 3: operation winch 4 shut-down both limit switches "flap in position" defect./missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335372	ZE 3: operation winch 4 shut-down both angle sensors "fly jib" defective/missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335373	ZE 3: operation winch 4 shut-down both limit switches "lower fly jib" defective/missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335374	ZE 3: operation winch 4 shut-down both limit switches "upper fly jib flap" defect./missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335375	ZE 3: operation winch 4 shut-down both limit switches "upper fly jib stop"defect./missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335381	ZE 3: operation winch 4 end of stroke switch 1 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
335382	ZE 3: operation winch 4 end of stroke switch 2 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
335383	ZE 3: operation winch 4 end of stroke switch 3 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
335385	ZE 3: operation winch 4 Shut-down limit switch right "RFP main boom" faulty / not present Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335386	ZE 3: operation winch 4 Shut-down limit switch "RFP Main boom" links faulty / not present Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335387	ZE 3: operation winch 4 Shut-down limit switch right "Overtop guard cyl D" faulty/not pres Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335388	ZE 3: operation winch 4 Shut-down limit switch left "Overtop guard cyl D" faulty/not preS Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335391	ZE 3: operation winch 4 Shut-down limit switch right "Limit angle SA-frame" faulty/not pres Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
335392	ZE 3: operation winch 4 Shut-down limit switch left "Limit angle SA-frame" faulty/not prese Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335501	ZE 3: operation winch 6 feed pressure supply missing/too low Operation conditional switch off, may not be shunted Reestablish charge pressure supply - shut-down may not be shunted			B	
335504	ZE 3: operation winch 6 unreeled winch shut-down Operation conditional switch off, may not be shunted reel in winch until the "winch reeled out" switch is no longer actuated - shut-down cannot be shunted			B	
335505	ZE 3: operation winch 6 reeled winch shut-down Operation conditional switch off, may not be shunted reel out winch until the "winch reeled in" switch is no longer actuated -shut-down cannot be shunted			B	
335519	ZE 3: operation winch 6 no or invalid operation mode shut-down Operation conditional switch off, may not be shunted enter correct operation mode or dismantle accessory parts - shut-down cannot be shunted			B	
335520	ZE 3: operation winch 6 LMB shut-down operational shut down Remedy cause of "LMB Stop" see error report LMB - shut-down may be shunted via assembly switch (danger).			B	
335521	ZE 3: operation winch 6 Shut-down measuring point 1 > F max - operation operational shut down Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
335522	ZE 3: operation winch 6 Shut-down measuring point 1 > F max - assembly Operation conditional switch off, may not be shunted Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
335524	ZE 3: operation winch 6 Shut-down measuring point 1 < F min and count. utilisation > 50% Operation conditional switch off, may not be shunted Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
335525	ZE 3: operation winch 6 Shut-down measuring point 1 < F min and count. utilisation > 90% Operation conditional switch off, may not be shunted Set down derrick counterweight on ground, if not possible unload derrick counterweight, until forces in desired range			B	
335526	ZE 3: operation winch 6 Shut-down upper limit angle derrick OGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
335527	ZE 3: operation winch 6 Shut-down lower limit angle derrick UGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	
335529	ZE 3: operation winch 6 winch blocked (C-key monitor) Operation conditional switch off, may not be shunted Authorise winch 6 in control diagram.			B	
335531	ZE 3: operation winch 6 master switch 2 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
335539	ZE 3: operation winch 6 seat contact shut-down operational shut down Sit down or actuate one of the shunting switches for the seat contact in the master switches.			B	
335550	ZE 3: operation winch 6 end of stroke switch shut-down 1 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
335551	ZE 3: operation winch 6 end of stroke switch shut-down 2 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
335552	ZE 3: operation winch 6 end of stroke switch shut-down 3 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
335581	ZE 3: operation winch 6 end of stroke switch 1 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
335582	ZE 3: operation winch 6 end of stroke switch 2 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
335583	ZE 3: operation winch 6 end of stroke switch 3 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
336202	ZE 3: Operation crawler Shut-down counterweight on ground Operation conditional switch off, may not be shunted Raise suspended counterweight.			B	
336203	ZE 3: Operation crawler Shut-down support counterweight carriage is not retracted Operation conditional switch off, may not be shunted Retract support counterweight carriage completely.			B	
336205	ZE 3: Operation crawler Shut-down swing with parallel travel count. carriage not possible Operation conditional shut-down, shunting via lifting up keyswitch BW - only switch on if BW safely lifted Press tow-travel key until the wheels are in travel direction and the indicator lamp remains on.			B	
336206	ZE 3: Operation crawler Shut-down swing gear brake has not opened with tow-travel BW Operation conditional shut-down, shunting via lifting up keyswitch BW - only switch on if BW safely lifted Check: Brake valve swing gear - electrical selection, short-circuit or interruption, hydraulics.			B	
336207	ZE 3: Operation crawler Shut-down free swing gear is not on with tow-travel BW operational shut down Check: True run or brake swing gear - electrical selection, short-circuit or interruption, hydraulics.			B	
336208	ZE 3: Operation crawler Shut-down swing gear brake has opened with parallel travel BW Operation conditional switch off, may not be shunted Check: Brake valve swing gear - electrical selection, short-circuit following supply voltage, hydraulics.			B	
336209	ZE 3: Operation crawler Shut-down free swing gear is not on with parallel travel BW Operation conditional switch off, may not be shunted Check: True run or brake swing gear - electrical selection, short-circuit or interruption, hydraulics.			B	
336219	ZE 3: Operation crawler no or invalid operation mode shut-down operational shut down Using the additional error reports determine which error is present with ballast configuration.			B	
336220	ZE 3: Operation crawler High-speed gear crawler is not poss. - parallel op. crawler is on High speed crawler is not possible Switch off crawler parallel operation.			B	
336230	ZE 3: Operation crawler Master switch 4 faulty/not present operational shut down Put foot pedal in zero position. Otherwise note system error for defective or missing sensors.			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
336231	ZE 3: Operation crawler Master switch 5 faulty/not present operational shut down Put foot pedal in zero position. Otherwise note system error for defective or missing sensors.			B	
336233	ZE 3: Operation crawler Parallel operation differential path between crawlers too great operational shut down Switch off parallel crawler operation and switch on again, parallel operation is thus newly adjusted.			B	
336239	ZE 3: Operation crawler seat contact shut-down operational shut down Sit down or actuate one of the shunting switches for the seat contact in the master switches.			B	
336254	ZE 3: Operation crawler Shut-down overtopping guard cylinder main boom in bump stop Operation conditional switch off, may not be shunted luff main boom down until limit switch is no longer activated - shut-down cannot be shunted			B	
336255	ZE 3: Operation crawler Shut-down overtopping guard cylinder derrick boom in bump stop Operation conditional switch off, may not be shunted Luff down derrick boom until limit switch no longer activated - Shut-down may not be shunted			B	
336270	ZE 3: Operation crawler Shut-down lim switch "Count. on ground" vo. left faulty/not present Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	
336271	ZE 3: Operation crawler Shut-down lim switch "Count. on ground" vo. right faulty/not present Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	
336272	ZE 3: Operation crawler Shut-down lim switch "Count. on ground" hi. left faulty/not present Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	
336273	ZE 3: Operation crawler Shut-down lim switch "Count. on ground" hi. right faulty/not present Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	
336274	ZE 3: Operation crawler Shut-down limit switch "Support retracted" vo. faulty/not present Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
336275	ZE 3: Operation crawler Shut-down limit switch "Support retracted" hi. faulty/not present Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	
336285	ZE 3: Operation crawler Shut-down limit switch "RFP Main boom" right faulty/not present Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	
336286	ZE 3: Operation crawler Shut-down limit switch "RFP Main boom" links faulty/not present Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	
336287	ZE 3: Operation crawler Shut-down limit switch "Overtop guard cyl D" right faulty/not prese Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	
336288	ZE 3: Operation crawler Shut-down limit switch "Overtop guard cyl D" left faulty/not presen Operation conditional switch off, may not be shunted Release foot pedal - error remedy see corresponding system error			B	
336942	ZE 3: Operation crane control Emergency op. crane cont. switched on with start test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
336943	ZE 3: Operation crane control Emergency op. crane control switched on during test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
361001	E/A-Modul 3: system error OS-C167 initialising error processor-register erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
361002	E/A-Modul 3: system error OS-C167 initialising error test total in EPROM/FLASH erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
361006	E/A-Modul 3: system error OS-C167 initialising error RAM erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
361013	E/A-Modul 3: system error OS-C167 test total in EPROM/FLASH erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
361016	E/A-Modul 3: system error OS-C167 system-, driver-watchdog expired error indication on display note error report, ignition ON/OFF, with repeated occurrence --> inform after-sales service			E	2
361068	E/A-Modul 3: system error OS-C167 impermissible interrupt error indication on display note error report, ignition ON/OFF, with repeated occurrence --> inform after-sales service			E	2
361071	E/A-Modul 3: system error OS-C167 Invalid configuration or Firmware error indication on display re-load Software from ZE			E	2
361080	E/A-Modul 3: system error OS-C167 fatal internal software error error indication on display note error report, ignition ON/OFF, with repeated occurrence --> inform after-sales service			E	2
361082	E/A-Modul 3: system error OS-C167 hardware-watchdog erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
372052	E/A-Modul 3: input/output DEA0 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:17		E	1
372053	E/A-Modul 3: input/output DEA0 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:17		E	1
372054	E/A-Modul 3: input/output DEA0 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:17		E	1
372055	E/A-Modul 3: input/output DEA0 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
372152	E/A-Modul 3: input/output DEA1 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:15		E	1
372153	E/A-Modul 3: input/output DEA1 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:15		E	1
372154	E/A-Modul 3: input/output DEA1 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:15		E	1
372155	E/A-Modul 3: input/output DEA1 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:15		E	1
372252	E/A-Modul 3: input/output DEA2 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:13		E	1
372253	E/A-Modul 3: input/output DEA2 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:13		E	1
372254	E/A-Modul 3: input/output DEA2 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:13		E	1
372255	E/A-Modul 3: input/output DEA2 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:13		E	1
372352	E/A-Modul 3: input/output DEA3 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:11		E	1
372353	E/A-Modul 3: input/output DEA3 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:11		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
372354	E/A-Modul 3: input/output DEA3 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:11		E	1
372355	E/A-Modul 3: input/output DEA3 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:11		E	1
372452	E/A-Modul 3: input/output DEA4 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:9		E	1
372453	E/A-Modul 3: input/output DEA4 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:9		E	1
372454	E/A-Modul 3: input/output DEA4 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:9		E	1
372455	E/A-Modul 3: input/output DEA4 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:9		E	1
372552	E/A-Modul 3: input/output DEA5 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:7		E	1
372553	E/A-Modul 3: input/output DEA5 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:7		E	1
372554	E/A-Modul 3: input/output DEA5 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:7		E	1
372555	E/A-Modul 3: input/output DEA5 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:7		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
372652	E/A-Modul 3: input/output DEA6 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:5		E	1
372653	E/A-Modul 3: input/output DEA6 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:5		E	1
372654	E/A-Modul 3: input/output DEA6 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:5		E	1
372655	E/A-Modul 3: input/output DEA6 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:5		E	1
372752	E/A-Modul 3: input/output DEA7 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:3		E	1
372753	E/A-Modul 3: input/output DEA7 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:3		E	1
372754	E/A-Modul 3: input/output DEA7 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:3		E	1
372755	E/A-Modul 3: input/output DEA7 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:3		E	1
373017	E/A-Modul 3: current input E0 voltage below required value on both support operating units "E." is flashing on the display for support force front right check input signal on the E/A-Modul or sensor	X632:17		E	1
373080	E/A-Modul 3: current input E0 short circuit to ground, open line, voltage sensor erroneous on both support operating units "E." is flashing on the display for support force front right check input signal on the E/A-Modul or sensor	X632:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
373117	E/A-Modul 3: current input E1 voltage below required value on both support operating units "E." is flashing on the display for support force rear right check input signal on the E/A-Modul or sensor	X632:15		E	1
373180	E/A-Modul 3: current input E1 short circuit to ground, open line, voltage sensor erroneous on both support operating units "E." is flashing on the display for support force rear right check input signal on the E/A-Modul or sensor	X632:15		E	1
373217	E/A-Modul 3: current input E2 voltage below required value both outer LEDs for transversal inclination on both support operating units are flashing check input signal on the E/A-Modul or sensor	X632:13		E	1
373280	E/A-Modul 3: current input E2 short circuit to ground, open line, voltage sensor erroneous both outer LEDs for transversal inclination on both support operating units are flashing check input signal on the E/A-Modul or sensor	X632:13		E	1
373317	E/A-Modul 3: current input E3 voltage below required value both outer LEDs for longitudinal inclination are flashing on both support units check input signal on the E/A-Modul or sensor	X632:11		E	1
373380	E/A-Modul 3: current input E3 short circuit to ground, open line, voltage sensor erroneous both outer LEDs for longitudinal inclination are flashing on both support units check input signal on the E/A-Modul or sensor	X632:11		E	1
373782	E/A-Modul 3: voltage input E7 short circuit to ground, open line, constant current 10 mA incorrect symbol for diesel tank is flashing on the display unit, as are 3 question marks on monitor in uppercarriage check input signal on the E/A-Modul or sensor	X632:3		E	1
373783	E/A-Modul 3: voltage input E7 short circuit to supply voltage, open line, lack of voltage symbol for diesel tank is flashing on the display unit, as are 3 question marks on monitor in uppercarriage check input signal on the E/A-Modul or sensor	X632:3		E	1
379052	E/A-Modul 3: output A0 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:18		E	1
379053	E/A-Modul 3: output A0 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:18		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
379054	E/A-Modul 3: output A0 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:18		E	1
379055	E/A-Modul 3: output A0 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:18		E	1
379152	E/A-Modul 3: output A1 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:16		E	1
379153	E/A-Modul 3: output A1 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:16		E	1
379154	E/A-Modul 3: output A1 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:16		E	1
379155	E/A-Modul 3: output A1 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:16		E	1
379250	E/A-Modul 3: bridge output A2 short circuit to ground, junction not supplied error report on display check output for short, check current supply of load, if necessary replace E/A-Modul	X633:14		E	1
379251	E/A-Modul 3: bridge output A2 short circuit to supply voltage, excessive temperature error report on display check output for short, check output load (measure load current), if necessary replace E/A-Modul	X633:14		E	1
379252	E/A-Modul 3: bridge output A2 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:14		E	1
379253	E/A-Modul 3: bridge output A2 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:14		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
379254	E/A-Modul 3: bridge output A2 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:14		E	1
379255	E/A-Modul 3: bridge output A2 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:14		E	1
379350	E/A-Modul 3: bridge output A3 short circuit to ground, junction not supplied error report on display check output for short, check current supply of load, if necessary replace E/A-Modul	X633:12		E	1
379351	E/A-Modul 3: bridge output A3 short circuit to supply voltage, excessive temperature error report on display check output for short, check output load (measure load current), if necessary replace E/A-Modul	X633:12		E	1
379352	E/A-Modul 3: bridge output A3 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X633:12		E	1
379353	E/A-Modul 3: bridge output A3 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X633:12		E	1
379354	E/A-Modul 3: bridge output A3 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X633:12		E	1
379355	E/A-Modul 3: bridge output A3 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X633:12		E	1
383501	E/A-Modul 3: SPI-support unit right Faulty data transfer E/A-module<->unit (time exceeded) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X634:1/2/3/5/6/ 7/8		E	1
383502	E/A-Modul 3: SPI-support unit right Serious system error to SPI-connection (interface) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X634:1/2/3/5/6/ 7/8		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
383503	E/A-Modul 3: SPI-support unit right break in line or short circuit to supply voltage error indication on display remedy short circuit, check periphery and replace if necessary, check E/A-Modul and replace if necessary	X634:1/2/3/5/6/ 7/8		E	1
383504	E/A-Modul 3: SPI-support unit right break in line or short circuit to ground error indication on display remedy short circuit, check periphery and replace if necessary, check E/A-Modul and replace if necessary	X634:1/2/3/5/6/ 7/8		E	1
383506	E/A-Modul 3: SPI-support unit right Data transfer faulty (faulty check byte) error indication on display suppress EMV- interference	X634:1/2/3/5/6/ 7/8		E	1
383507	E/A-Modul 3: SPI-support unit right Unit faulty/missing, incorrect unit inserted (ID) error indication on display check periphery and replace if necessary, check Software version, check EMV- interference	X634:1/2/3/5/6/ 7/8		E	1
383508	E/A-Modul 3: SPI-support unit right Data transfer faulty (incorrect number of data bytes received) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X634:1/2/3/5/6/ 7/8		E	1
383900	E/A-Modul 3: Control operating unit (SPI) Faulty initialisation data connection E/A-module<->unit error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X634:1/2/3/5/6/ 7/8		E	1
383902	E/A-Modul 3: Control operating unit (SPI) Serious system error to SPI-connection (interface) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X634:1/2/3/5/6/ 7/8		E	1
383905	E/A-Modul 3: Control operating unit (SPI) Initialisation error, resetting inputs/outputs faulty error indication on display check wiring, check periphery and replace if necessary, check E/A-Modul and replace if necessary	X634:1/2/3/5/6/ 7/8		E	1
383907	E/A-Modul 3: Control operating unit (SPI) Unit faulty/missing, incorrect unit inserted (ID) error indication on display connect functional periphery unit, system then eliminates error independently	X634:1/2/3/5/6/ 7/8		E	1
383908	E/A-Modul 3: Control operating unit (SPI) Data transfer faulty (incorrect number of data bytes received) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X634:1/2/3/5/6/ 7/8		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
384050	E/A-Modul 3: LSB-B participant address 0 reports an incorrect sensor type  Check Bus configuration in LSB test system, remove faulty / incorrect users from Bus	X633:4/6		E	1
384104	E/A-Modul 3: LSB-B participant address 1 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X633:4/6		E	1
384105	E/A-Modul 3: LSB-B participant address 1 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X633:4/6		E	1
384118	E/A-Modul 3: LSB-B participant address 1 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X633:4/6		E	0
384150	E/A-Modul 3: LSB-B participant address 1 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X633:4/6		E	2
384151	E/A-Modul 3: LSB-B participant address 1 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X633:4/6		E	2
384153	E/A-Modul 3: LSB-B participant address 1 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X633:4/6		E	1
384154	E/A-Modul 3: LSB-B participant address 1 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X633:4/6		E	2
384164	E/A-Modul 3: LSB-B participant address 1 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X633:4/6		E	1
384165	E/A-Modul 3: LSB-B participant address 1 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X633:4/6		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
384166	E/A-Modul 3: LSB-B participant address 1 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X633:4/6		E	2
384167	E/A-Modul 3: LSB-B participant address 1 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X633:4/6		E	1
384404	E/A-Modul 3: LSB-B participant address 4 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X633:4/6		E	1
384405	E/A-Modul 3: LSB-B participant address 4 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X633:4/6		E	1
384418	E/A-Modul 3: LSB-B participant address 4 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X633:4/6		E	0
384450	E/A-Modul 3: LSB-B participant address 4 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X633:4/6		E	2
384451	E/A-Modul 3: LSB-B participant address 4 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X633:4/6		E	2
384453	E/A-Modul 3: LSB-B participant address 4 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X633:4/6		E	1
384454	E/A-Modul 3: LSB-B participant address 4 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X633:4/6		E	2
384464	E/A-Modul 3: LSB-B participant address 4 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X633:4/6		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
384465	E/A-Modul 3: LSB-B participant address 4 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X633:4/6		E	2
384466	E/A-Modul 3: LSB-B participant address 4 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X633:4/6		E	2
384467	E/A-Modul 3: LSB-B participant address 4 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X633:4/6		E	1
384504	E/A-Modul 3: LSB-B participant address 5 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X633:4/6		E	1
384505	E/A-Modul 3: LSB-B participant address 5 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X633:4/6		E	1
384518	E/A-Modul 3: LSB-B participant address 5 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X633:4/6		E	0
384550	E/A-Modul 3: LSB-B participant address 5 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X633:4/6		E	2
384551	E/A-Modul 3: LSB-B participant address 5 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X633:4/6		E	2
384553	E/A-Modul 3: LSB-B participant address 5 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X633:4/6		E	1
384554	E/A-Modul 3: LSB-B participant address 5 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X633:4/6		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
384564	E/A-Modul 3: LSB-B participant address 5 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X633:4/6		E	1
384565	E/A-Modul 3: LSB-B participant address 5 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X633:4/6		E	2
384566	E/A-Modul 3: LSB-B participant address 5 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X633:4/6		E	2
384567	E/A-Modul 3: LSB-B participant address 5 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X633:4/6		E	1
384704	E/A-Modul 3: LSB-B participant address 7 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X633:4/6		E	1
384705	E/A-Modul 3: LSB-B participant address 7 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X633:4/6		E	1
384718	E/A-Modul 3: LSB-B participant address 7 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X633:4/6		E	0
384750	E/A-Modul 3: LSB-B participant address 7 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X633:4/6		E	2
384751	E/A-Modul 3: LSB-B participant address 7 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X633:4/6		E	2
384753	E/A-Modul 3: LSB-B participant address 7 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X633:4/6		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
384754	E/A-Modul 3: LSB-B participant address 7 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X633:4/6		E	2
384764	E/A-Modul 3: LSB-B participant address 7 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X633:4/6		E	1
384765	E/A-Modul 3: LSB-B participant address 7 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X633:4/6		E	2
384766	E/A-Modul 3: LSB-B participant address 7 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X633:4/6		E	2
384767	E/A-Modul 3: LSB-B participant address 7 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X633:4/6		E	1
387252	E/A-Modul 3: Control data transfer LSB-B has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X633:4/6		E	0
387255	E/A-Modul 3: Control data transfer LSB-B Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X633:4/6		E	2
387256	E/A-Modul 3: Control data transfer LSB-B Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X633:4/6		E	2
387257	E/A-Modul 3: Control data transfer LSB-B has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X633:4/6		E	1
387258	E/A-Modul 3: Control data transfer LSB-B recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X633:4/6		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
387259	E/A-Modul 3: Control data transfer LSB-B recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X633:4/6		E	0
387260	E/A-Modul 3: Control data transfer LSB-B driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X633:4/6		E	2
387261	E/A-Modul 3: Control data transfer LSB-B driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malfunc. error will be eliminated by system itself otherwise new Software necessary for error elimination	X633:4/6		E	2
387262	E/A-Modul 3: Control data transfer LSB-B Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X633:4/6		E	2
392830	E/A-Modul 3: control supports location coding for right support unit erroneous (set value = 0) support functions are blocked check line connection to E/A-Modul, check ground connection from signal, replace E/A-Modul			E	2
392832	E/A-Modul 3: control supports right support unit key sticking or activated after switching on right support blocked check/unplug/replace support operating unit release activated key			E	1
394190	E/A-Modul 3: LSB-bus participant ZE missing communication with participant not possible, after re-starting of bus communication error will be reset check LSB-network, check participant			E	1
394194	E/A-Modul 3: LSB-bus participant E/A-Modul 4 missing communication with participant not possible, after re-starting of bus communication error will be reset check LSB-network, check participant			E	1
394196	E/A-Modul 3: LSB-bus participant E/A-Modul 6 missing communication with participant not possible, after re-starting of bus communication error will be reset check LSB-network, check participant			E	1
396408	E/A-Modul 3: operation supports unauthorised operation from upper-carriage function is not carried out check coding of E/A-Modul 3 and E/A-Modul 4 (see electric circuit diagram)			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
396409	E/A-Modul 3: operation supports unauthorised operation from under-carriage function is not carried out check coding of E/A-Modul 3 and E/A-Modul 4 (see electric circuit diagram)			B	
396440	E/A-Modul 3: operation supports simultaneous UP and DOWN operation of support control unit function is not carried out actuate UP key or DOWN key of the respective support operating unit, start test program support service unit			B	
396441	E/A-Modul 3: operation supports simultaneous IN and OUT operation of support control unit function is not carried out actuate OFF key or ON key of the respective support operating unit, start test program support operating unit			B	
396442	E/A-Modul 3: operation supports simultaneous UP and DOWN operation on upper-carriage monitor function is not carried out actuate UP key or DOWN key of the respective support operating unit, start test program support service unit			B	
396443	E/A-Modul 3: operation supports simultaneous IN and OUT operation on upper-carriage monitor function is not carried out actuate OFF key or ON key of the respective support operating unit, start test program support operating unit			B	
396444	E/A-Modul 3: operation supports simultaneous left and right operation of support control unit function is not carried out actuate support from only one operating position, start test program support operating unit			B	
396445	E/A-Modul 3: operation supports simultaneous operation of support control unit and upper-carriage function is not carried out actuate support from only one operating position, start test program support operating unit			B	
396446	E/A-Modul 3: operation supports simultaneous operation of support control unit and upper-carriage function is not carried out actuate support from only one operating position, start test program support operating unit			B	
396447	E/A-Modul 3: operation supports operation of support control unit with travel direction D engaged function is not carried out switch transmission to neutral (N)			B	
396448	E/A-Modul 3: operation supports operation of support control unit with travel direction R engaged function is not carried out switch transmission to neutral (N)			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
396449	E/A-Modul 3: operation supports op. of upper-carriage monitor with travel direction D engaged function is not carried out switch transmission to neutral (N)			B	
396450	E/A-Modul 3: operation supports operation of upper-carriage-monitor R function is not carried out switch transmission to neutral (N)			B	
396451	E/A-Modul 3: operation supports unauthorised activation of right support control unit key right support blocked release activated key after having authorized function through hand- key			B	
399890	E/A-Modul 3: operation diagnosis system test program not executable as engine is not OFF function is not carried out shut down engine			B	
399892	E/A-Modul 3: operation diagnosis system test program not executable as not in under-carriage op. mode function is not carried out switch over uppercarriage/undercarriage-change-switch to undercarriage operation mode			B	
400001	ZE 4: system error OS-HC11 (observe parameters) initialising error processor-register erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
400002	ZE 4: system error OS-HC11 (observe parameters) initialising error test total in EPROM/FLASH erroneous no crane operation possible check program memory card or ZE			E	2
400006	ZE 4: system error OS-HC11 (observe parameters) initialising error RAM erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
400007	ZE 4: system error OS-HC11 (observe parameters) UART erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
400010	ZE 4: system error OS-HC11 (observe parameters) system routine inaccessible entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
400011	ZE 4: system error OS-HC11 (observe parameters) ZE-watchdog expired entry in error memory, all crane movements will be stopped check ZE			E	2
400012	ZE 4: system error OS-HC11 (observe parameters) type-identification in EPROM erroneous entry in error memory, no crane operation possible check program memory card			E	2
400013	ZE 4: system error OS-HC11 (observe parameters) Test sum in FLASH erroneous entry in error memory, all crane movements will be stopped check program memory card			E	2
400014	ZE 4: system error OS-HC11 (observe parameters) program already running entry in error memory, all crane movements will be stopped			E	2
400015	ZE 4: system error OS-HC11 (observe parameters) program not available entry in error memory, all crane movements will be stopped			E	2
400016	ZE 4: system error OS-HC11 (observe parameters) system-, driver-watchdog expired entry in error memory, all crane movements will be stopped			E	2
400017	ZE 4: system error OS-HC11 (observe parameters) total of CPU-time distribution too great entry in error memory, all crane movements will be stopped			E	2
400018	ZE 4: system error OS-HC11 (observe parameters) arithmetic overflow (16 Bit) entry in error memory, all crane movements will be stopped			E	2
400019	ZE 4: system error OS-HC11 (observe parameters) division through zero (16 Bit) entry in error memory, all crane movements will be stopped			E	2
400020	ZE 4: system error OS-HC11 (observe parameters) task-watchdog expired entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
400021	ZE 4: system error OS-HC11 (observe parameters) illegal opcode trap entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
400022	ZE 4: system error OS-HC11 (observe parameters) task inactive entry in error memory, all crane movements will be stopped			E	2
400023	ZE 4: system error OS-HC11 (observe parameters) program incapable of running (type identification) entry in error memory, all crane movements will be stopped			E	2
400024	ZE 4: system error OS-HC11 (observe parameters) task already used entry in error memory, all crane movements will be stopped			E	2
400025	ZE 4: system error OS-HC11 (observe parameters) realtime-module already used entry in error memory, all crane movements will be stopped			E	2
400026	ZE 4: system error OS-HC11 (observe parameters) regulator-module already used entry in error memory, all crane movements will be stopped			E	2
400030	ZE 4: system error OS-HC11 (observe parameters) unacceptable bank address entry in error memory, all crane movements will be stopped			E	2
400041	ZE 4: system error OS-HC11 (observe parameters) arithmetic error entry in error memory, all crane movements will be stopped			E	2
400044	ZE 4: system error OS-HC11 (observe parameters) output parameter without effect, from inactive output entry in error memory, all crane movements will be stopped			E	2
400045	ZE 4: system error OS-HC11 (observe parameters) entry parameter undefined, from inactive input entry in error memory, all crane movements will be stopped			E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
400046	ZE 4: system error OS-HC11 (observe parameters) impermissible regulator parameter entry in error memory, all crane movements will be stopped			E	2
400047	ZE 4: system error OS-HC11 (observe parameters) realtime-control block not available entry in error memory, all crane movements will be stopped			E	2
400048	ZE 4: system error OS-HC11 (observe parameters) realtime-control block inactive entry in error memory, all crane movements will be stopped			E	2
400049	ZE 4: system error OS-HC11 (observe parameters) urgent modul, ZE not available entry in error memory, no crane operation possible check ZE			E	2
400050	ZE 4: system error OS-HC11 (observe parameters) file not available entry in error memory, all crane movements will be stopped			E	2
400051	ZE 4: system error OS-HC11 (observe parameters) file already opened entry in error memory, all crane movements will be stopped			E	2
400052	ZE 4: system error OS-HC11 (observe parameters) file not open on close entry in error memory, all crane movements will be stopped			E	2
400053	ZE 4: system error OS-HC11 (observe parameters) system mask not available entry in error memory, all crane movements will be stopped			E	2
400054	ZE 4: system error OS-HC11 (observe parameters) system text not available entry in error memory, all crane movements will be stopped			E	2
400055	ZE 4: system error OS-HC11 (observe parameters) symbol not available entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
400056	ZE 4: system error OS-HC11 (observe parameters) invalid mark in symbol entry in error memory, all crane movements will be stopped			E	2
400057	ZE 4: system error OS-HC11 (observe parameters) default load chart missing entry in error memory, all crane movements will be stopped			E	2
400058	ZE 4: system error OS-HC11 (observe parameters) amplifier erroneous or return power feed entry in error memory, all crane movements will be stopped check wiring			E	2
400059	ZE 4: system error OS-HC11 (observe parameters) subroutine not reenterant entry in error memory, all crane movements will be stopped			E	2
400060	ZE 4: system error OS-HC11 (observe parameters) transmission error SCI entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
400061	ZE 4: system error OS-HC11 (observe parameters) SCI-BREAK entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
400062	ZE 4: system error OS-HC11 (observe parameters) SCI not connected entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
400063	ZE 4: system error OS-HC11 (observe parameters) monitor error in operation entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
400065	ZE 4: system error OS-HC11 (observe parameters) impermissible bus address entry in error memory, all crane movements will be stopped			E	2
400066	ZE 4: system error OS-HC11 (observe parameters) ADC working outside the permissible tolerance entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
400067	ZE 4: system error OS-HC11 (observe parameters) arithmetic processor not available entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
400068	ZE 4: system error OS-HC11 (observe parameters) impermissible interrupt entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
400070	ZE 4: system error OS-HC11 (observe parameters) various structure versions entry in error memory, no crane operation possible			E	2
400071	ZE 4: system error OS-HC11 (observe parameters) Structure file missing or faulty entry in error memory, no crane operation possible			E	2
400072	ZE 4: system error OS-HC11 (observe parameters) structure entry senseless entry in error memory, no crane operation possible			E	2
400073	ZE 4: system error OS-HC11 (observe parameters) interpreter error entry in error memory, all crane movements will be stopped			E	2
400074	ZE 4: system error OS-HC11 (observe parameters) transformation ASCII to BIN erroneous entry in error memory, all crane movements will be stopped			E	2
400075	ZE 4: system error OS-HC11 (observe parameters) SPI-error entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
400076	ZE 4: system error OS-HC11 (observe parameters) incorrectly inserted power unit entry in error memory, all crane movements will be stopped check memory card in power supply unit			E	2
400077	ZE 4: system error OS-HC11 (observe parameters) BAF-call-up erroneous entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
400078	ZE 4: system error OS-HC11 (observe parameters) impermissible parameter entry in error memory, all crane movements will be stopped			E	2
400079	ZE 4: system error OS-HC11 (observe parameters) no right of access entry in error memory, all crane movements will be stopped			E	2
400080	ZE 4: system error OS-HC11 (observe parameters) Fatal internal error entry in error memory, all crane movements will be stopped			E	2
400081	ZE 4: system error OS-HC11 (observe parameters) stack overflow entry in error memory, all crane movements will be stopped			E	2
400082	ZE 4: system error OS-HC11 (observe parameters) hardware-watchdog erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
400094	ZE 4: system error OS-HC11 (observe parameters) transmission error parallel bus entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
400095	ZE 4: system error OS-HC11 (observe parameters) DMA-error entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
400099	ZE 4: system error OS-HC11 (observe parameters) DSP0 erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
402001	ZE 4: system error OS-TMS initialising error processor-register erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
402002	ZE 4: system error OS-TMS initialising error test total in EPROM/FLASH erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
402006	ZE 4: system error OS-TMS initialising error RAM erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
402007	ZE 4: system error OS-TMS UART erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
402020	ZE 4: system error OS-TMS task-watchdog expired entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
402021	ZE 4: system error OS-TMS illegal opcode trap entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
402082	ZE 4: system error OS-TMS hardware-watchdog erroneous entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
410012	ZE 4: output 0 short circuit to ground	X74:16		E	1
410013	ZE 4: output 0 open signal circuits	X74:16		E	1
410014	ZE 4: output 0 short circuit to supply voltage	X74:16		E	1
410054	ZE 4: output 0 short circuit to supply voltage	X74:16		E	1
410058	ZE 4: output 0 positive switching transistor: disruption	X74:16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
410060	ZE 4: output 0 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X74:16		E	1
410062	ZE 4: output 0 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X74:16		E	1
410063	ZE 4: output 0 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X74:16		E	1
410070	ZE 4: output 0 measuring system defect no crane operation possible entry in error list	X74:16		E	1
410071	ZE 4: output 0 short circuit to ground or transistor defect	X74:16		E	1
410072	ZE 4: output 0 outside source feeding	X74:16		E	1
410073	ZE 4: output 0 open circuit or short circuit to supply voltage/ground	X74:16		E	1
410112	ZE 4: output 1 short circuit to ground	X74:17		E	1
410113	ZE 4: output 1 open signal circuits	X74:17		E	1
410114	ZE 4: output 1 short circuit to supply voltage	X74:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
410154	ZE 4: output 1 short circuit to supply voltage	X74:17		E	1
410158	ZE 4: output 1 positive switching transistor: disruption	X74:17		E	1
410160	ZE 4: output 1 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X74:17		E	1
410162	ZE 4: output 1 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X74:17		E	1
410163	ZE 4: output 1 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X74:17		E	1
410170	ZE 4: output 1 measuring system defect no crane operation possible entry in error list	X74:17		E	1
410171	ZE 4: output 1 short circuit to ground or transistor defect	X74:17		E	1
410172	ZE 4: output 1 outside source feeding	X74:17		E	1
410173	ZE 4: output 1 open circuit or short circuit to supply voltage/ground	X74:17		E	1
410212	ZE 4: output 2 short circuit to ground	X74:18		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
410213	ZE 4: output 2 open signal circuits	X74:18		E	1
410214	ZE 4: output 2 short circuit to supply voltage	X74:18		E	1
410254	ZE 4: output 2 short circuit to supply voltage	X74:18		E	1
410258	ZE 4: output 2 positive switching transistor: disruption	X74:18		E	1
410270	ZE 4: output 2 measuring system defect no crane operation possible entry in error list	X74:18		E	1
410271	ZE 4: output 2 short circuit to ground or transistor defect	X74:18		E	1
410272	ZE 4: output 2 outside source feeding	X74:18		E	1
410273	ZE 4: output 2 open circuit or short circuit to supply voltage/ground	X74:18		E	1
410312	ZE 4: output 3 short circuit to ground	X74:19		E	1
410313	ZE 4: output 3 open signal circuits	X74:19		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
410314	ZE 4: output 3 short circuit to supply voltage	X74:19		E	1
410354	ZE 4: output 3 short circuit to supply voltage	X74:19		E	1
410358	ZE 4: output 3 positive switching transistor: disruption	X74:19		E	1
410360	ZE 4: output 3 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X74:19		E	1
410362	ZE 4: output 3 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X74:19		E	1
410363	ZE 4: output 3 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X74:19		E	1
410370	ZE 4: output 3 measuring system defect no crane operation possible entry in error list	X74:19		E	1
410371	ZE 4: output 3 short circuit to ground or transistor defect	X74:19		E	1
410372	ZE 4: output 3 outside source feeding	X74:19		E	1
410373	ZE 4: output 3 open circuit or short circuit to supply voltage/ground	X74:19		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
410412	ZE 4: output 4 short circuit to ground	X74:20		E	1
410413	ZE 4: output 4 open signal circuits	X74:20		E	1
410414	ZE 4: output 4 short circuit to supply voltage	X74:20		E	1
410454	ZE 4: output 4 short circuit to supply voltage	X74:20		E	1
410458	ZE 4: output 4 positive switching transistor: disruption	X74:20		E	1
410470	ZE 4: output 4 measuring system defect no crane operation possible entry in error list	X74:20		E	1
410471	ZE 4: output 4 short circuit to ground or transistor defect	X74:20		E	1
410472	ZE 4: output 4 outside source feeding	X74:20		E	1
410473	ZE 4: output 4 open circuit or short circuit to supply voltage/ground	X74:20		E	1
410512	ZE 4: output 5 short circuit to ground	X74:21		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
410513	ZE 4: output 5 open signal circuits	X74:21		E	1
410514	ZE 4: output 5 short circuit to supply voltage	X74:21		E	1
410554	ZE 4: output 5 short circuit to supply voltage	X74:21		E	1
410558	ZE 4: output 5 positive switching transistor: disruption	X74:21		E	1
410570	ZE 4: output 5 measuring system defect no crane operation possible entry in error list	X74:21		E	1
410571	ZE 4: output 5 short circuit to ground or transistor defect	X74:21		E	1
410572	ZE 4: output 5 outside source feeding	X74:21		E	1
410573	ZE 4: output 5 open circuit or short circuit to supply voltage/ground	X74:21		E	1
410612	ZE 4: output 6 short circuit to ground	X74:22		E	1
410613	ZE 4: output 6 open signal circuits	X74:22		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
410614	ZE 4: output 6 short circuit to supply voltage	X74:22		E	1
410654	ZE 4: output 6 short circuit to supply voltage	X74:22		E	1
410658	ZE 4: output 6 positive switching transistor: disruption	X74:22		E	1
410660	ZE 4: output 6 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X74:22		E	1
410662	ZE 4: output 6 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X74:22		E	1
410663	ZE 4: output 6 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X74:22		E	1
410670	ZE 4: output 6 measuring system defect no crane operation possible entry in error list	X74:22		E	1
410671	ZE 4: output 6 short circuit to ground or transistor defect	X74:22		E	1
410672	ZE 4: output 6 outside source feeding	X74:22		E	1
410673	ZE 4: output 6 open circuit or short circuit to supply voltage/ground	X74:22		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
410712	ZE 4: output 7 short circuit to ground	X74:23		E	1
410713	ZE 4: output 7 open signal circuits	X74:23		E	1
410714	ZE 4: output 7 short circuit to supply voltage	X74:23		E	1
410754	ZE 4: output 7 short circuit to supply voltage	X74:23		E	1
410758	ZE 4: output 7 positive switching transistor: disruption	X74:23		E	1
410770	ZE 4: output 7 measuring system defect no crane operation possible entry in error list	X74:23		E	1
410771	ZE 4: output 7 short circuit to ground or transistor defect	X74:23		E	1
410772	ZE 4: output 7 outside source feeding	X74:23		E	1
410773	ZE 4: output 7 open circuit or short circuit to supply voltage/ground	X74:23		E	1
414959	ZE 4: all output supply voltage missing	X74		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
415059	ZE 4: output group 0 supply voltage missing	X74:12		E	1
415159	ZE 4: output group 1 supply voltage missing	X74:24		E	1
415259	ZE 4: output group 2 supply voltage missing	X74:25		E	1
415359	ZE 4: output group 3 supply voltage missing	X74:13		E	1
420004	ZE 4: LSB participant address 0 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
420005	ZE 4: LSB participant address 0 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
420018	ZE 4: LSB participant address 0 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
420050	ZE 4: LSB participant address 0 reports an incorrect sensor type  Check Bus configuration in LSB test system, remove faulty / incorrect users from Bus	X635D:z14/z16		E	1
420050	ZE 4: LSB participant address 0 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
420051	ZE 4: LSB participant address 0 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
420053	ZE 4: LSB participant address 0 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
420054	ZE 4: LSB participant address 0 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
420064	ZE 4: LSB participant address 0 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
420065	ZE 4: LSB participant address 0 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
420066	ZE 4: LSB participant address 0 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
420067	ZE 4: LSB participant address 0 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
420104	ZE 4: LSB participant address 1 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
420105	ZE 4: LSB participant address 1 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
420118	ZE 4: LSB participant address 1 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
420150	ZE 4: LSB participant address 1 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
420151	ZE 4: LSB participant address 1 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
420153	ZE 4: LSB participant address 1 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
420154	ZE 4: LSB participant address 1 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
420164	ZE 4: LSB participant address 1 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
420165	ZE 4: LSB participant address 1 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
420166	ZE 4: LSB participant address 1 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
420167	ZE 4: LSB participant address 1 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
420904	ZE 4: LSB participant address 9 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
420905	ZE 4: LSB participant address 9 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
420918	ZE 4: LSB participant address 9 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
420950	ZE 4: LSB participant address 9 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
420951	ZE 4: LSB participant address 9 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
420953	ZE 4: LSB participant address 9 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
420954	ZE 4: LSB participant address 9 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
420964	ZE 4: LSB participant address 9 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
420965	ZE 4: LSB participant address 9 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
420966	ZE 4: LSB participant address 9 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
420967	ZE 4: LSB participant address 9 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
421004	ZE 4: LSB participant address 10 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
421005	ZE 4: LSB participant address 10 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421018	ZE 4: LSB participant address 10 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
421050	ZE 4: LSB participant address 10 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
421051	ZE 4: LSB participant address 10 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
421053	ZE 4: LSB participant address 10 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
421054	ZE 4: LSB participant address 10 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
421064	ZE 4: LSB participant address 10 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
421065	ZE 4: LSB participant address 10 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
421066	ZE 4: LSB participant address 10 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
421067	ZE 4: LSB participant address 10 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
421104	ZE 4: LSB participant address 11 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421105	ZE 4: LSB participant address 11 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
421118	ZE 4: LSB participant address 11 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
421150	ZE 4: LSB participant address 11 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
421151	ZE 4: LSB participant address 11 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
421153	ZE 4: LSB participant address 11 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
421154	ZE 4: LSB participant address 11 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
421164	ZE 4: LSB participant address 11 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
421165	ZE 4: LSB participant address 11 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
421166	ZE 4: LSB participant address 11 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
421167	ZE 4: LSB participant address 11 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421204	ZE 4: LSB participant address 12 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
421205	ZE 4: LSB participant address 12 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
421218	ZE 4: LSB participant address 12 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
421250	ZE 4: LSB participant address 12 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
421251	ZE 4: LSB participant address 12 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
421253	ZE 4: LSB participant address 12 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
421254	ZE 4: LSB participant address 12 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
421264	ZE 4: LSB participant address 12 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
421265	ZE 4: LSB participant address 12 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
421266	ZE 4: LSB participant address 12 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421267	ZE 4: LSB participant address 12 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
421304	ZE 4: LSB participant address 13 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
421305	ZE 4: LSB participant address 13 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
421318	ZE 4: LSB participant address 13 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
421350	ZE 4: LSB participant address 13 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
421351	ZE 4: LSB participant address 13 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
421353	ZE 4: LSB participant address 13 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
421354	ZE 4: LSB participant address 13 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
421364	ZE 4: LSB participant address 13 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
421365	ZE 4: LSB participant address 13 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421366	ZE 4: LSB participant address 13 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
421367	ZE 4: LSB participant address 13 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
421504	ZE 4: LSB participant address 15 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
421505	ZE 4: LSB participant address 15 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
421518	ZE 4: LSB participant address 15 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
421550	ZE 4: LSB participant address 15 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
421551	ZE 4: LSB participant address 15 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
421553	ZE 4: LSB participant address 15 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
421554	ZE 4: LSB participant address 15 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
421564	ZE 4: LSB participant address 15 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421565	ZE 4: LSB participant address 15 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
421566	ZE 4: LSB participant address 15 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
421567	ZE 4: LSB participant address 15 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
421604	ZE 4: LSB participant address 16 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
421605	ZE 4: LSB participant address 16 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
421618	ZE 4: LSB participant address 16 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
421650	ZE 4: LSB participant address 16 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
421651	ZE 4: LSB participant address 16 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
421653	ZE 4: LSB participant address 16 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
421654	ZE 4: LSB participant address 16 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421664	ZE 4: LSB participant address 16 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
421665	ZE 4: LSB participant address 16 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
421666	ZE 4: LSB participant address 16 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
421667	ZE 4: LSB participant address 16 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
421704	ZE 4: LSB participant address 17 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
421705	ZE 4: LSB participant address 17 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
421718	ZE 4: LSB participant address 17 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
421750	ZE 4: LSB participant address 17 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
421751	ZE 4: LSB participant address 17 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
421753	ZE 4: LSB participant address 17 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421754	ZE 4: LSB participant address 17 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
421764	ZE 4: LSB participant address 17 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
421765	ZE 4: LSB participant address 17 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
421766	ZE 4: LSB participant address 17 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
421767	ZE 4: LSB participant address 17 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
421804	ZE 4: LSB participant address 18 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
421805	ZE 4: LSB participant address 18 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
421818	ZE 4: LSB participant address 18 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
421850	ZE 4: LSB participant address 18 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
421851	ZE 4: LSB participant address 18 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421853	ZE 4: LSB participant address 18 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
421854	ZE 4: LSB participant address 18 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
421864	ZE 4: LSB participant address 18 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
421865	ZE 4: LSB participant address 18 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
421866	ZE 4: LSB participant address 18 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
421867	ZE 4: LSB participant address 18 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
421904	ZE 4: LSB participant address 19 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
421905	ZE 4: LSB participant address 19 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
421918	ZE 4: LSB participant address 19 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
421950	ZE 4: LSB participant address 19 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
421951	ZE 4: LSB participant address 19 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
421953	ZE 4: LSB participant address 19 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
421954	ZE 4: LSB participant address 19 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
421964	ZE 4: LSB participant address 19 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
421965	ZE 4: LSB participant address 19 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
421966	ZE 4: LSB participant address 19 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
421967	ZE 4: LSB participant address 19 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
422004	ZE 4: LSB participant address 20 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
422005	ZE 4: LSB participant address 20 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
422018	ZE 4: LSB participant address 20 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
422050	ZE 4: LSB participant address 20 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
422051	ZE 4: LSB participant address 20 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
422053	ZE 4: LSB participant address 20 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
422054	ZE 4: LSB participant address 20 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
422064	ZE 4: LSB participant address 20 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
422065	ZE 4: LSB participant address 20 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
422066	ZE 4: LSB participant address 20 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
422067	ZE 4: LSB participant address 20 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
422104	ZE 4: LSB participant address 21 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
422105	ZE 4: LSB participant address 21 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
422118	ZE 4: LSB participant address 21 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
422150	ZE 4: LSB participant address 21 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
422151	ZE 4: LSB participant address 21 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
422153	ZE 4: LSB participant address 21 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
422154	ZE 4: LSB participant address 21 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
422164	ZE 4: LSB participant address 21 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
422165	ZE 4: LSB participant address 21 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
422166	ZE 4: LSB participant address 21 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
422167	ZE 4: LSB participant address 21 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
422204	ZE 4: LSB participant address 22 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
422205	ZE 4: LSB participant address 22 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
422218	ZE 4: LSB participant address 22 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
422250	ZE 4: LSB participant address 22 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
422251	ZE 4: LSB participant address 22 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
422253	ZE 4: LSB participant address 22 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
422254	ZE 4: LSB participant address 22 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
422264	ZE 4: LSB participant address 22 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
422265	ZE 4: LSB participant address 22 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
422266	ZE 4: LSB participant address 22 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
422267	ZE 4: LSB participant address 22 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
422404	ZE 4: LSB participant address 24 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
422405	ZE 4: LSB participant address 24 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
422418	ZE 4: LSB participant address 24 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
422450	ZE 4: LSB participant address 24 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
422451	ZE 4: LSB participant address 24 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
422453	ZE 4: LSB participant address 24 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
422454	ZE 4: LSB participant address 24 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
422464	ZE 4: LSB participant address 24 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
422465	ZE 4: LSB participant address 24 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
422466	ZE 4: LSB participant address 24 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
422467	ZE 4: LSB participant address 24 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
422504	ZE 4: LSB participant address 25 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
422505	ZE 4: LSB participant address 25 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
422518	ZE 4: LSB participant address 25 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
422550	ZE 4: LSB participant address 25 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
422551	ZE 4: LSB participant address 25 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
422553	ZE 4: LSB participant address 25 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
422554	ZE 4: LSB participant address 25 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
422564	ZE 4: LSB participant address 25 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
422565	ZE 4: LSB participant address 25 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
422566	ZE 4: LSB participant address 25 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
422567	ZE 4: LSB participant address 25 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
422604	ZE 4: LSB participant address 26 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
422605	ZE 4: LSB participant address 26 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
422618	ZE 4: LSB participant address 26 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
422650	ZE 4: LSB participant address 26 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
422651	ZE 4: LSB participant address 26 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
422653	ZE 4: LSB participant address 26 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
422654	ZE 4: LSB participant address 26 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
422664	ZE 4: LSB participant address 26 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
422665	ZE 4: LSB participant address 26 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
422666	ZE 4: LSB participant address 26 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
422667	ZE 4: LSB participant address 26 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
422704	ZE 4: LSB participant address 27 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
422705	ZE 4: LSB participant address 27 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
422718	ZE 4: LSB participant address 27 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
422750	ZE 4: LSB participant address 27 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
422751	ZE 4: LSB participant address 27 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
422753	ZE 4: LSB participant address 27 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1
422754	ZE 4: LSB participant address 27 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
422764	ZE 4: LSB participant address 27 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
422765	ZE 4: LSB participant address 27 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
422766	ZE 4: LSB participant address 27 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
422767	ZE 4: LSB participant address 27 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
422804	ZE 4: LSB participant address 28 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635D:z14/z16		E	1
422805	ZE 4: LSB participant address 28 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635D:z14/z16		E	1
422818	ZE 4: LSB participant address 28 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635D:z14/z16		E	0
422850	ZE 4: LSB participant address 28 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635D:z14/z16		E	2
422851	ZE 4: LSB participant address 28 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635D:z14/z16		E	2
422853	ZE 4: LSB participant address 28 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635D:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
422854	ZE 4: LSB participant address 28 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635D:z14/z16		E	2
422864	ZE 4: LSB participant address 28 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635D:z14/z16		E	1
422865	ZE 4: LSB participant address 28 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635D:z14/z16		E	2
422866	ZE 4: LSB participant address 28 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635D:z14/z16		E	2
422867	ZE 4: LSB participant address 28 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635D:z14/z16		E	1
423252	ZE 4: Control data transfer LSB has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X635D:z14/z16		E	0
423255	ZE 4: Control data transfer LSB Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635D:z14/z16		E	2
423256	ZE 4: Control data transfer LSB Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635D:z14/z16		E	2
423257	ZE 4: Control data transfer LSB has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X635D:z14/z16		E	1
423258	ZE 4: Control data transfer LSB recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X635D:z14/z16		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
423259	ZE 4: Control data transfer LSB recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X635D:z14/z16		E	0
423260	ZE 4: Control data transfer LSB driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X635D:z14/z16		E	2
423261	ZE 4: Control data transfer LSB driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malf. error will be eliminated by system itself otherwise new Software necessary for error elimination	X635D:z14/z16		E	2
423262	ZE 4: Control data transfer LSB Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X635D:z14/z16		E	2
424814	ZE 4: input 0 short circuit to supply voltage Output of error Check: the sensor line for short-circuits, faulty sensors by pulling out the sensor, connections to the input plate	X635D:d2		E	1
424856	ZE 4: input 0 open circuit or short circuit to ground Output of error Check: Supply voltage, input LICCON, sensor lines for interruptions, faulty sensors by pulling out the sensor	X635D:d2		E	1
432400	ZE 4: control winch 5 no slewing movement recognized on actuated winch output of error check LICCON output, lines for short or break, incremental sensor on function, hoisting gear brake			E	1
432402	ZE 4: control winch 5 hydraulic circuit pressure sensor defective/missing if valid winch torque for LMB is available this will be used, otherwise 0 bar is loaded into pressure value memory check supply, LICCON input, sensor lines to short or break, sensor			E	1
435401	ZE 4: operation winch 5 feed pressure supply missing/too low Operation conditional switch off, may not be shunted Reestablish charge pressure supply - shut-down may not be shunted			B	
435403	ZE 4: operation winch 5 Shut-down jib lower Operation conditional switch off, may not be shunted Luff up jib until limit switch no longer activated - shut-up may not be shunted			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
435404	ZE 4: operation winch 5 unreeled winch shut-down Operation conditional switch off, may not be shunted reel in winch until the "winch reeled out" switch is no longer actuated - shut-down cannot be shunted			B	
435405	ZE 4: operation winch 5 reeled winch shut-down Operation conditional switch off, may not be shunted Wind off winch until switch "Winch wound on" is no longer activated - shut-down may not be shunted			B	
435406	ZE 4: operation winch 5 upper angle limit OGW shut-down operational shut down reel winch out until the radius is within the load chart again - shut-down can be shunted (danger)			B	
435407	ZE 4: operation winch 5 lower angle limit UGW shut-down operational shut down reel winch in until the radius is within the load chart again - shut-down can be shunted (danger)			B	
435410	ZE 4: operation winch 5 fly jib upper stop shut-down Operation conditional switch off, may not be shunted Luff down jib until limit switch no longer activated - shut-down may not be activated			B	
435411	ZE 4: operation winch 5 fly jib upper flap shut-down Operation conditional switch off, may not be shunted Luff down jib until limit switch no longer activated - shut-down may not be activated			B	
435413	ZE 4: operation winch 5 shut-down as flap not positioned and angle threshold exceeded Operation conditional switch off, may not be shunted check as to why the flap is not in position - shut-down cannot be shunted			B	
435414	ZE 4: operation winch 5 pressure retaining cylinder RFP N shut-down outside set range Operation conditional switch off, may not be shunted Wind off winch until pressure is once again within the desired range - shut-down may not be shunted .			B	
435416	ZE 4: operation winch 5 luffing up accessory shut-down working area limitation ABB operational shut down reel winch out until crane in working area again - shunting through shutting down of working area limitation			B	
435417	ZE 4: operation winch 5 luffing down accessory shut-down working area limitation ABB operational shut down reel winch in until crane in working area again - shunting through shutting down of working area limitation			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
435419	ZE 4: operation winch 5 no or invalid operation mode shut-down Operation conditional switch off, may not be shunted enter correct operation mode or dismantle accessory parts - shut-down cannot be shunted			B	
435420	ZE 4: operation winch 5 LMB shut-down operational shut down Remedy cause of "LMB Stop" see error report LMB - shut-down may be shunted via assembly switch (danger).			B	
435421	ZE 4: operation winch 5 Shut-down measuring point 1 > F max - operation Operation conditional switch off, may not be shunted Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
435422	ZE 4: operation winch 5 Shut-down measuring point 1 > F max - assembly operational shut down Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
435424	ZE 4: operation winch 5 Shut-down measuring point 1 < F min and count. utilisation > 50% Operation conditional switch off, may not be shunted Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
435425	ZE 4: operation winch 5 Shut-down measuring point 1 < F min and count. utilisation > 90% Operation conditional switch off, may not be shunted Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
435426	ZE 4: operation winch 5 Shut-down upper limit angle derrick OGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	
435427	ZE 4: operation winch 5 Shut-down lower limit angle derrick UGWD operational shut down Operate derrick boom in operating position - shut-down may be shunted (danger).			B	
435429	ZE 4: operation winch 5 winch blocked (C-key monitor) Operation conditional switch off, may not be shunted Authorise winch 5 in control diagram.			B	
435430	ZE 4: operation winch 5 master switch 1 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
435431	ZE 4: operation winch 5 master switch 2 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
435432	ZE 4: operation winch 5 master switch 3 defective/missing operational shut down Turn master switch to zero position. Otherwise note system error for defective or missing sensors.			B	
435438	ZE 4: operation winch 5 Shut-down upper limit angle accessory Operation conditional switch off, may not be shunted Luff up main boom during erection procedure, luff down main boom or accessory during setting down procedure.			B	
435439	ZE 4: operation winch 5 seat contact shut-down operational shut down Sit down or actuate one of the shunting switches for the seat contact in the master switches.			B	
435450	ZE 4: operation winch 5 end of stroke switch shut-down 1 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
435451	ZE 4: operation winch 5 end of stroke switch shut-down 2 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
435452	ZE 4: operation winch 5 end of stroke switch shut-down 3 operational shut down control winch in opposite direction until end stroke switch no longer active - shut-down can be shunted (danger)			B	
435470	ZE 4: operation winch 5 shut-down both limit switches "flap in position" defect./missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
435472	ZE 4: operation winch 5 shut-down both angle sensors "fly jib" defective/missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
435473	ZE 4: operation winch 5 shut-down both limit switches "lower fly jib" defective/missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
435474	ZE 4: operation winch 5 shut-down both limit switches "upper fly jib flap" defect./missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
435475	ZE 4: operation winch 5 shut-down both limit switches "upper fly jib stop"defect./missing Operation conditional switch off, may not be shunted release master switch - error elimination see corresponding system error			B	
435481	ZE 4: operation winch 5 end of stroke switch 1 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
435482	ZE 4: operation winch 5 end of stroke switch 2 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
435483	ZE 4: operation winch 5 end of stroke switch 3 shut-down defective operational shut down Error remedying see corresponding system error - shut-down may be shunted (danger)			B	
436942	ZE 4: Operation crane control Emergency op. crane cont. switched on with start test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
436943	ZE 4: Operation crane control Emergency op. crane control switched on during test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
461001	E/A-Modul 4: system error OS-C167 initialising error processor-register erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
461002	E/A-Modul 4: system error OS-C167 initialising error test total in EPROM/FLASH erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
461006	E/A-Modul 4: system error OS-C167 initialising error RAM erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
461013	E/A-Modul 4: system error OS-C167 test total in EPROM/FLASH erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
461016	E/A-Modul 4: system error OS-C167 system-, driver-watchdog expired error indication on display note error report, ignition ON/OFF, with repeated occurrence --> inform after-sales service			E	2
461068	E/A-Modul 4: system error OS-C167 impermissible interrupt error indication on display note error report, ignition ON/OFF, with repeated occurrence --> inform after-sales service			E	2
461071	E/A-Modul 4: system error OS-C167 Invalid configuration or Firmware error indication on display re-load Software from ZE			E	2
461080	E/A-Modul 4: system error OS-C167 fatal internal software error error indication on display note error report, ignition ON/OFF, with repeated occurrence --> inform after-sales service			E	2
461082	E/A-Modul 4: system error OS-C167 hardware-watchdog erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
472052	E/A-Modul 4: input/output DEA0 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:17		E	1
472053	E/A-Modul 4: input/output DEA0 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:17		E	1
472054	E/A-Modul 4: input/output DEA0 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:17		E	1
472055	E/A-Modul 4: input/output DEA0 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
472152	E/A-Modul 4: input/output DEA1 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:15		E	1
472153	E/A-Modul 4: input/output DEA1 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:15		E	1
472154	E/A-Modul 4: input/output DEA1 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:15		E	1
472155	E/A-Modul 4: input/output DEA1 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:15		E	1
472252	E/A-Modul 4: input/output DEA2 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:13		E	1
472253	E/A-Modul 4: input/output DEA2 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:13		E	1
472254	E/A-Modul 4: input/output DEA2 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:13		E	1
472255	E/A-Modul 4: input/output DEA2 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:13		E	1
472352	E/A-Modul 4: input/output DEA3 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:11		E	1
472353	E/A-Modul 4: input/output DEA3 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:11		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
472354	E/A-Modul 4: input/output DEA3 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:11		E	1
472355	E/A-Modul 4: input/output DEA3 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:11		E	1
472452	E/A-Modul 4: input/output DEA4 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:9		E	1
472453	E/A-Modul 4: input/output DEA4 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:9		E	1
472454	E/A-Modul 4: input/output DEA4 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:9		E	1
472455	E/A-Modul 4: input/output DEA4 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:9		E	1
472552	E/A-Modul 4: input/output DEA5 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:7		E	1
472553	E/A-Modul 4: input/output DEA5 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:7		E	1
472554	E/A-Modul 4: input/output DEA5 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:7		E	1
472555	E/A-Modul 4: input/output DEA5 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:7		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
472652	E/A-Modul 4: input/output DEA6 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:5		E	1
472653	E/A-Modul 4: input/output DEA6 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:5		E	1
472654	E/A-Modul 4: input/output DEA6 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:5		E	1
472655	E/A-Modul 4: input/output DEA6 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:5		E	1
472752	E/A-Modul 4: input/output DEA7 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:3		E	1
472753	E/A-Modul 4: input/output DEA7 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:3		E	1
472754	E/A-Modul 4: input/output DEA7 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:3		E	1
472755	E/A-Modul 4: input/output DEA7 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:3		E	1
473017	E/A-Modul 4: current input E0 voltage below required value on both support operating units "E." is flashing on the display for support force front left check input signal on the E/A-Modul or sensor	X642:17		E	1
473080	E/A-Modul 4: current input E0 short circuit to ground, open line, voltage sensor erroneous on both support operating units "E." is flashing on the display for support force front left check input signal on the E/A-Modul or sensor	X642:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
473117	E/A-Modul 4: current input E1 voltage below required value on both support operating units "E." is flashing on the display for support force rear left check input signal on the E/A-Modul or sensor	X642:15		E	1
473180	E/A-Modul 4: current input E1 short circuit to ground, open line, voltage sensor erroneous on both support operating units "E." is flashing on the display for support force rear left check input signal on the E/A-Modul or sensor	X642:15		E	1
479052	E/A-Modul 4: output A0 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:18		E	1
479053	E/A-Modul 4: output A0 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:18		E	1
479054	E/A-Modul 4: output A0 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:18		E	1
479055	E/A-Modul 4: output A0 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:18		E	1
479152	E/A-Modul 4: output A1 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:16		E	1
479153	E/A-Modul 4: output A1 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:16		E	1
479154	E/A-Modul 4: output A1 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:16		E	1
479155	E/A-Modul 4: output A1 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
479250	E/A-Modul 4: bridge output A2 short circuit to ground, junction not supplied error report on display check output for short, check current supply of load, if necessary replace E/A-Modul	X643:14		E	1
479251	E/A-Modul 4: bridge output A2 short circuit to supply voltage, excessive temperature error report on display check output for short, check output load (measure load current), if necessary replace E/A-Modul	X643:14		E	1
479252	E/A-Modul 4: bridge output A2 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:14		E	1
479253	E/A-Modul 4: bridge output A2 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:14		E	1
479254	E/A-Modul 4: bridge output A2 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:14		E	1
479255	E/A-Modul 4: bridge output A2 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:14		E	1
479350	E/A-Modul 4: bridge output A3 short circuit to ground, junction not supplied error report on display check output for short, check current supply of load, if necessary replace E/A-Modul	X643:12		E	1
479351	E/A-Modul 4: bridge output A3 short circuit to supply voltage, excessive temperature error report on display check output for short, check output load (measure load current), if necessary replace E/A-Modul	X643:12		E	1
479352	E/A-Modul 4: bridge output A3 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X643:12		E	1
479353	E/A-Modul 4: bridge output A3 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X643:12		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
479354	E/A-Modul 4: bridge output A3 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X643:12		E	1
479355	E/A-Modul 4: bridge output A3 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X643:12		E	1
483601	E/A-Modul 4: SPI-support unit left Faulty data transfer E/A-module<->unit (time exceeded) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X644:1/2/3/5/6/ 7/8		E	1
483602	E/A-Modul 4: SPI-support unit left Serious system error to SPI-connection (interface) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X644:1/2/3/5/6/ 7/8		E	1
483603	E/A-Modul 4: SPI-support unit left break in line or short circuit to supply voltage error indication on display remedy short circuit, check periphery and replace if necessary, check E/A-Modul and replace if necessary	X644:1/2/3/5/6/ 7/8		E	1
483604	E/A-Modul 4: SPI-support unit left break in line or short circuit to ground error indication on display remedy short circuit, check periphery and replace if necessary, check E/A-Modul and replace if necessary	X644:1/2/3/5/6/ 7/8		E	1
483606	E/A-Modul 4: SPI-support unit left Data transfer faulty (faulty check byte) error indication on display suppress EMV- interference	X644:1/2/3/5/6/ 7/8		E	1
483607	E/A-Modul 4: SPI-support unit left Unit faulty/missing, incorrect unit inserted (ID) error indication on display check periphery and replace if necessary, check Software version, check EMV- interference	X644:1/2/3/5/6/ 7/8		E	1
483608	E/A-Modul 4: SPI-support unit left Data transfer faulty (incorrect number of data bytes received) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X644:1/2/3/5/6/ 7/8		E	1
483900	E/A-Modul 4: Control operating unit (SPI) Faulty initialisation data connection E/A-module<->unit error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X644:1/2/3/5/6/ 7/8		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
483902	E/A-Modul 4: Control operating unit (SPI) Serious system error to SPI-connection (interface) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X644:1/2/3/5/6/ 7/8		E	1
483905	E/A-Modul 4: Control operating unit (SPI) Initialisation error, resetting inputs/outputs faulty error indication on display check wiring, check periphery and replace if necessary, check E/A-Modul and replace if necessary	X644:1/2/3/5/6/ 7/8		E	1
483907	E/A-Modul 4: Control operating unit (SPI) Unit faulty/missing, incorrect unit inserted (ID) error indication on display connect functional periphery unit, system then eliminates error independently	X644:1/2/3/5/6/ 7/8		E	1
483908	E/A-Modul 4: Control operating unit (SPI) Data transfer faulty (incorrect number of data bytes received) error indication on display system re-starts SPI-driver and eliminates error independently, with repeated occurrence replace E/A-Modul	X644:1/2/3/5/6/ 7/8		E	1
484050	E/A-Modul 4: LSB-B participant address 0 reports an incorrect sensor type  Check Bus configuration in LSB test system, remove faulty / incorrect users from Bus	X643:4/6		E	1
484104	E/A-Modul 4: LSB-B participant address 1 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X643:4/6		E	1
484105	E/A-Modul 4: LSB-B participant address 1 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X643:4/6		E	1
484118	E/A-Modul 4: LSB-B participant address 1 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X643:4/6		E	0
484150	E/A-Modul 4: LSB-B participant address 1 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X643:4/6		E	2
484151	E/A-Modul 4: LSB-B participant address 1 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X643:4/6		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
484153	E/A-Modul 4: LSB-B participant address 1 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X643:4/6		E	1
484154	E/A-Modul 4: LSB-B participant address 1 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X643:4/6		E	2
484164	E/A-Modul 4: LSB-B participant address 1 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X643:4/6		E	1
484165	E/A-Modul 4: LSB-B participant address 1 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X643:4/6		E	2
484166	E/A-Modul 4: LSB-B participant address 1 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X643:4/6		E	2
484167	E/A-Modul 4: LSB-B participant address 1 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X643:4/6		E	1
484404	E/A-Modul 4: LSB-B participant address 4 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X643:4/6		E	1
484405	E/A-Modul 4: LSB-B participant address 4 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X643:4/6		E	1
484418	E/A-Modul 4: LSB-B participant address 4 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X643:4/6		E	0
484450	E/A-Modul 4: LSB-B participant address 4 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X643:4/6		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
484451	E/A-Modul 4: LSB-B participant address 4 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X643:4/6		E	2
484453	E/A-Modul 4: LSB-B participant address 4 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X643:4/6		E	1
484454	E/A-Modul 4: LSB-B participant address 4 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X643:4/6		E	2
484464	E/A-Modul 4: LSB-B participant address 4 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X643:4/6		E	1
484465	E/A-Modul 4: LSB-B participant address 4 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X643:4/6		E	2
484466	E/A-Modul 4: LSB-B participant address 4 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X643:4/6		E	2
484467	E/A-Modul 4: LSB-B participant address 4 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X643:4/6		E	1
484504	E/A-Modul 4: LSB-B participant address 5 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X643:4/6		E	1
484505	E/A-Modul 4: LSB-B participant address 5 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X643:4/6		E	1
484518	E/A-Modul 4: LSB-B participant address 5 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X643:4/6		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
484550	E/A-Modul 4: LSB-B participant address 5 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X643:4/6		E	2
484551	E/A-Modul 4: LSB-B participant address 5 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X643:4/6		E	2
484553	E/A-Modul 4: LSB-B participant address 5 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X643:4/6		E	1
484554	E/A-Modul 4: LSB-B participant address 5 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X643:4/6		E	2
484564	E/A-Modul 4: LSB-B participant address 5 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X643:4/6		E	1
484565	E/A-Modul 4: LSB-B participant address 5 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X643:4/6		E	2
484566	E/A-Modul 4: LSB-B participant address 5 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X643:4/6		E	2
484567	E/A-Modul 4: LSB-B participant address 5 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X643:4/6		E	1
484704	E/A-Modul 4: LSB-B participant address 7 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X643:4/6		E	1
484705	E/A-Modul 4: LSB-B participant address 7 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X643:4/6		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
484718	E/A-Modul 4: LSB-B participant address 7 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X643:4/6		E	0
484750	E/A-Modul 4: LSB-B participant address 7 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X643:4/6		E	2
484751	E/A-Modul 4: LSB-B participant address 7 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X643:4/6		E	2
484753	E/A-Modul 4: LSB-B participant address 7 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X643:4/6		E	1
484754	E/A-Modul 4: LSB-B participant address 7 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X643:4/6		E	2
484764	E/A-Modul 4: LSB-B participant address 7 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X643:4/6		E	1
484765	E/A-Modul 4: LSB-B participant address 7 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X643:4/6		E	2
484766	E/A-Modul 4: LSB-B participant address 7 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X643:4/6		E	2
484767	E/A-Modul 4: LSB-B participant address 7 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X643:4/6		E	1
487252	E/A-Modul 4: Control data transfer LSB-B has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X643:4/6		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
487255	E/A-Modul 4: Control data transfer LSB-B Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X643:4/6		E	2
487256	E/A-Modul 4: Control data transfer LSB-B Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X643:4/6		E	2
487257	E/A-Modul 4: Control data transfer LSB-B has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X643:4/6		E	1
487258	E/A-Modul 4: Control data transfer LSB-B recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X643:4/6		E	0
487259	E/A-Modul 4: Control data transfer LSB-B recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X643:4/6		E	0
487260	E/A-Modul 4: Control data transfer LSB-B driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X643:4/6		E	2
487261	E/A-Modul 4: Control data transfer LSB-B driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malf. error will be eliminated by system itself otherwise new Software necessary for error elimination	X643:4/6		E	2
487262	E/A-Modul 4: Control data transfer LSB-B Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X643:4/6		E	2
492831	E/A-Modul 4: control supports location coding for left support unit erroneous (set value = 1) support functions are blocked check line connection to E/A-Modul, check power supply from signal, replace E/A-Modul			E	2
492833	E/A-Modul 4: control supports left support unit key sticking or activated after switching on left support blocked check/unplug/replace support operating unit release activated key			E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
494190	E/A-Modul 4: LSB-bus participant ZE missing communication with participant not possible, after re-starting of bus communication error will be reset check LSB-network, check participant			E	1
494193	E/A-Modul 4: LSB-bus participant E/A-Modul 3 missing communication with participant not possible, after re-starting of bus communication error will be reset check LSB-network, check participant			E	1
494196	E/A-Modul 4: LSB-bus participant E/A-Modul 6 missing communication with participant not possible, after re-starting of bus communication error will be reset check LSB-network, check participant			E	1
496408	E/A-Modul 4: operation supports unauthorised operation from upper-carriage function is not carried out check coding of E/A-Modul 3 and E/A-Modul 4 (see electric circuit diagram)			B	
496409	E/A-Modul 4: operation supports unauthorised operation from under-carriage function is not carried out check coding of E/A-Modul 3 and E/A-Modul 4 (see electric circuit diagram)			B	
496440	E/A-Modul 4: operation supports simultaneous UP and DOWN operation of support control unit function is not carried out actuate UP key or DOWN key of the respective support operating unit, start test program support service unit			B	
496441	E/A-Modul 4: operation supports simultaneous IN and OUT operation of support control unit function is not carried out actuate OFF key or ON key of the respective support operating unit, start test program support operating unit			B	
496442	E/A-Modul 4: operation supports simultaneous UP and DOWN operation on upper-carriage monitor function is not carried out actuate UP key or DOWN key of the respective support operating unit, start test program support service unit			B	
496443	E/A-Modul 4: operation supports simultaneous IN and OUT operation on upper-carriage monitor function is not carried out actuate OFF key or ON key of the respective support operating unit, start test program support operating unit			B	
496444	E/A-Modul 4: operation supports simultaneous left and right operation of support control unit function is not carried out activate support from only one operating position or start test program support operating unit			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
496445	E/A-Modul 4: operation supports simultaneous operation of support control unit and upper-carriage function is not carried out activate support from only one operating position or start test program support operating unit			B	
496446	E/A-Modul 4: operation supports simultaneous operation of support control unit and upper-carriage function is not carried out activate support from only one operating position or start test program support operating unit			B	
496447	E/A-Modul 4: operation supports operation of support control unit with travel direction D engaged function is not carried out switch transmission to neutral (N)			B	
496448	E/A-Modul 4: operation supports operation of support control unit with travel direction R engaged function is not carried out switch transmission to neutral (N)			B	
496449	E/A-Modul 4: operation supports op. of upper-carriage monitor with travel direction D engaged function is not carried out switch transmission to neutral (N)			B	
496450	E/A-Modul 4: operation supports operation of upper-carriage-monitor R function is not carried out switch transmission to neutral (N)			B	
496452	E/A-Modul 4: operation supports unauthorised activation of left support control unit key left support blocked release activated key after having authorized function through hand- key			B	
499890	E/A-Modul 4: operation diagnosis system test program not executable as engine is not OFF function is not carried out shut down engine			B	
499892	E/A-Modul 4: operation diagnosis system test program not executable as not in under-carriage op. mode function is not carried out switch over uppercarriage/undercarriage-change-switch to undercarriage operation mode			B	
500001	ZE 5: system error OS-HC11 (observe parameters) initialising error processor-register erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
500002	ZE 5: system error OS-HC11 (observe parameters) initialising error test total in EPROM/FLASH erroneous no crane operation possible check program memory card or ZE			E	2
500006	ZE 5: system error OS-HC11 (observe parameters) initialising error RAM erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
500007	ZE 5: system error OS-HC11 (observe parameters) UART erroneous no crane operation possible if error re-occurs, then ZE should be replaced			E	2
500010	ZE 5: system error OS-HC11 (observe parameters) system routine inaccessible entry in error memory, all crane movements will be stopped			E	2
500011	ZE 5: system error OS-HC11 (observe parameters) ZE-watchdog expired entry in error memory, all crane movements will be stopped check ZE			E	2
500012	ZE 5: system error OS-HC11 (observe parameters) type-identification in EPROM erroneous entry in error memory, no crane operation possible check program memory card			E	2
500013	ZE 5: system error OS-HC11 (observe parameters) Test sum in FLASH erroneous entry in error memory, all crane movements will be stopped check program memory card			E	2
500014	ZE 5: system error OS-HC11 (observe parameters) program already running entry in error memory, all crane movements will be stopped			E	2
500015	ZE 5: system error OS-HC11 (observe parameters) program not available entry in error memory, all crane movements will be stopped			E	2
500016	ZE 5: system error OS-HC11 (observe parameters) system-, driver-watchdog expired entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
500017	ZE 5: system error OS-HC11 (observe parameters) total of CPU-time distribution too great entry in error memory, all crane movements will be stopped			E	2
500018	ZE 5: system error OS-HC11 (observe parameters) arithmetic overflow (16 Bit) entry in error memory, all crane movements will be stopped			E	2
500019	ZE 5: system error OS-HC11 (observe parameters) division through zero (16 Bit) entry in error memory, all crane movements will be stopped			E	2
500020	ZE 5: system error OS-HC11 (observe parameters) task-watchdog expired entry in error memory, all crane movements will be stopped			E	2
500021	ZE 5: system error OS-HC11 (observe parameters) illegal opcode trap entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
500022	ZE 5: system error OS-HC11 (observe parameters) task inactive entry in error memory, all crane movements will be stopped			E	2
500023	ZE 5: system error OS-HC11 (observe parameters) program incapable of running (type identification) entry in error memory, all crane movements will be stopped			E	2
500024	ZE 5: system error OS-HC11 (observe parameters) task already used entry in error memory, all crane movements will be stopped			E	2
500025	ZE 5: system error OS-HC11 (observe parameters) realtime-module already used entry in error memory, all crane movements will be stopped			E	2
500026	ZE 5: system error OS-HC11 (observe parameters) regulator-module already used entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
500030	ZE 5: system error OS-HC11 (observe parameters) unacceptable bank address entry in error memory, all crane movements will be stopped			E	2
500041	ZE 5: system error OS-HC11 (observe parameters) arithmetic error entry in error memory, all crane movements will be stopped			E	2
500044	ZE 5: system error OS-HC11 (observe parameters) output parameter without effect, from inactive output entry in error memory, all crane movements will be stopped			E	2
500045	ZE 5: system error OS-HC11 (observe parameters) entry parameter undefined, from inactive input entry in error memory, all crane movements will be stopped			E	2
500046	ZE 5: system error OS-HC11 (observe parameters) impermissible regulator parameter entry in error memory, all crane movements will be stopped			E	2
500047	ZE 5: system error OS-HC11 (observe parameters) realtime-control block not available entry in error memory, all crane movements will be stopped			E	2
500048	ZE 5: system error OS-HC11 (observe parameters) realtime-control block inactive entry in error memory, all crane movements will be stopped			E	2
500049	ZE 5: system error OS-HC11 (observe parameters) urgent modul, ZE not available entry in error memory, no crane operation possible check ZE			E	2
500050	ZE 5: system error OS-HC11 (observe parameters) file not available entry in error memory, all crane movements will be stopped			E	2
500051	ZE 5: system error OS-HC11 (observe parameters) file already opened entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
500052	ZE 5: system error OS-HC11 (observe parameters) file not open on close entry in error memory, all crane movements will be stopped			E	2
500053	ZE 5: system error OS-HC11 (observe parameters) system mask not available entry in error memory, all crane movements will be stopped			E	2
500054	ZE 5: system error OS-HC11 (observe parameters) system text not available entry in error memory, all crane movements will be stopped			E	2
500055	ZE 5: system error OS-HC11 (observe parameters) symbol not available entry in error memory, all crane movements will be stopped			E	2
500056	ZE 5: system error OS-HC11 (observe parameters) invalid mark in symbol entry in error memory, all crane movements will be stopped			E	2
500057	ZE 5: system error OS-HC11 (observe parameters) default load chart missing entry in error memory, all crane movements will be stopped			E	2
500058	ZE 5: system error OS-HC11 (observe parameters) amplifier erroneous or return power feed entry in error memory, all crane movements will be stopped check wiring			E	2
500059	ZE 5: system error OS-HC11 (observe parameters) subroutine not reentrant entry in error memory, all crane movements will be stopped			E	2
500060	ZE 5: system error OS-HC11 (observe parameters) transmission error SCI entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
500061	ZE 5: system error OS-HC11 (observe parameters) SCI-BREAK entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
500062	ZE 5: system error OS-HC11 (observe parameters) SCI not connected entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
500063	ZE 5: system error OS-HC11 (observe parameters) monitor error in operation entry in error memory, all crane movements will be stopped check monitor ZE and connection cable			E	2
500065	ZE 5: system error OS-HC11 (observe parameters) impermissible bus address entry in error memory, all crane movements will be stopped			E	2
500066	ZE 5: system error OS-HC11 (observe parameters) ADC working outside the permissible tolerance entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
500067	ZE 5: system error OS-HC11 (observe parameters) arithmetic processor not available entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
500068	ZE 5: system error OS-HC11 (observe parameters) impermissible interrupt entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
500070	ZE 5: system error OS-HC11 (observe parameters) various structure versions entry in error memory, no crane operation possible			E	2
500071	ZE 5: system error OS-HC11 (observe parameters) Structure file missing or faulty entry in error memory, no crane operation possible			E	2
500072	ZE 5: system error OS-HC11 (observe parameters) structure entry senseless entry in error memory, no crane operation possible			E	2
500073	ZE 5: system error OS-HC11 (observe parameters) interpreter error entry in error memory, all crane movements will be stopped			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
500074	ZE 5: system error OS-HC11 (observe parameters) transformation ASCII to BIN erroneous entry in error memory, all crane movements will be stopped			E	2
500075	ZE 5: system error OS-HC11 (observe parameters) SPI-error entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
500076	ZE 5: system error OS-HC11 (observe parameters) incorrectly inserted power unit entry in error memory, all crane movements will be stopped check memory card in power supply unit			E	2
500077	ZE 5: system error OS-HC11 (observe parameters) BAF-call-up erroneous entry in error memory, all crane movements will be stopped			E	2
500078	ZE 5: system error OS-HC11 (observe parameters) impermissible parameter entry in error memory, all crane movements will be stopped			E	2
500079	ZE 5: system error OS-HC11 (observe parameters) no right of access entry in error memory, all crane movements will be stopped			E	2
500080	ZE 5: system error OS-HC11 (observe parameters) Fatal internal error entry in error memory, all crane movements will be stopped			E	2
500081	ZE 5: system error OS-HC11 (observe parameters) stack overflow entry in error memory, all crane movements will be stopped			E	2
500082	ZE 5: system error OS-HC11 (observe parameters) hardware-watchdog erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
500094	ZE 5: system error OS-HC11 (observe parameters) transmission error parallel bus entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
500095	ZE 5: system error OS-HC11 (observe parameters) DMA-error entry in error memory, all crane movements will be stopped check ZE, bus circuit board, power supply unit			E	2
500099	ZE 5: system error OS-HC11 (observe parameters) DSP0 erroneous entry in error memory, all crane movements will be stopped if error re-occurs, then ZE should be replaced			E	2
502001	ZE 5: system error OS-TMS initialising error processor-register erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
502002	ZE 5: system error OS-TMS initialising error test total in EPROM/FLASH erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
502006	ZE 5: system error OS-TMS initialising error RAM erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
502007	ZE 5: system error OS-TMS UART erroneous entry of error in error memory, all crane movements will be stopped replace ZE			E	2
502020	ZE 5: system error OS-TMS task-watchdog expired entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
502021	ZE 5: system error OS-TMS illegal opcode trap entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
502082	ZE 5: system error OS-TMS hardware-watchdog erroneous entry of error in error memory, all crane movements will be stopped elimination only possible through after-sales service			E	2
510012	ZE 5: output 0 short circuit to ground	X75:16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
510013	ZE 5: output 0 open signal circuits	X75:16		E	1
510014	ZE 5: output 0 short circuit to supply voltage	X75:16		E	1
510054	ZE 5: output 0 short circuit to supply voltage	X75:16		E	1
510058	ZE 5: output 0 positive switching transistor: disruption	X75:16		E	1
510060	ZE 5: output 0 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X75:16		E	1
510062	ZE 5: output 0 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X75:16		E	1
510063	ZE 5: output 0 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X75:16		E	1
510070	ZE 5: output 0 measuring system defect no crane operation possible entry in error list	X75:16		E	1
510071	ZE 5: output 0 short circuit to ground or transistor defect	X75:16		E	1
510072	ZE 5: output 0 outside source feeding	X75:16		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
510073	ZE 5: output 0 open circuit or short circuit to supply voltage/ground	X75:16		E	1
510112	ZE 5: output 1 short circuit to ground	X75:17		E	1
510113	ZE 5: output 1 open signal circuits	X75:17		E	1
510114	ZE 5: output 1 short circuit to supply voltage	X75:17		E	1
510154	ZE 5: output 1 short circuit to supply voltage	X75:17		E	1
510158	ZE 5: output 1 positive switching transistor: disruption	X75:17		E	1
510160	ZE 5: output 1 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X75:17		E	1
510162	ZE 5: output 1 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X75:17		E	1
510163	ZE 5: output 1 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X75:17		E	1
510170	ZE 5: output 1 measuring system defect no crane operation possible entry in error list	X75:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
510171	ZE 5: output 1 short circuit to ground or transistor defect	X75:17		E	1
510172	ZE 5: output 1 outside source feeding	X75:17		E	1
510173	ZE 5: output 1 open circuit or short circuit to supply voltage/ground	X75:17		E	1
510212	ZE 5: output 2 short circuit to ground	X75:18		E	1
510213	ZE 5: output 2 open signal circuits	X75:18		E	1
510214	ZE 5: output 2 short circuit to supply voltage	X75:18		E	1
510254	ZE 5: output 2 short circuit to supply voltage	X75:18		E	1
510258	ZE 5: output 2 positive switching transistor: disruption	X75:18		E	1
510270	ZE 5: output 2 measuring system defect no crane operation possible entry in error list	X75:18		E	1
510271	ZE 5: output 2 short circuit to ground or transistor defect	X75:18		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
510272	ZE 5: output 2 outside source feeding	X75:18		E	1
510273	ZE 5: output 2 open circuit or short circuit to supply voltage/ground	X75:18		E	1
510312	ZE 5: output 3 short circuit to ground	X75:19		E	1
510313	ZE 5: output 3 open signal circuits	X75:19		E	1
510314	ZE 5: output 3 short circuit to supply voltage	X75:19		E	1
510354	ZE 5: output 3 short circuit to supply voltage	X75:19		E	1
510358	ZE 5: output 3 positive switching transistor: disruption	X75:19		E	1
510370	ZE 5: output 3 measuring system defect no crane operation possible entry in error list	X75:19		E	1
510371	ZE 5: output 3 short circuit to ground or transistor defect	X75:19		E	1
510372	ZE 5: output 3 outside source feeding	X75:19		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
510373	ZE 5: output 3 open circuit or short circuit to supply voltage/ground	X75:19		E	1
510412	ZE 5: output 4 short circuit to ground	X75:20		E	1
510413	ZE 5: output 4 open signal circuits	X75:20		E	1
510414	ZE 5: output 4 short circuit to supply voltage	X75:20		E	1
510454	ZE 5: output 4 short circuit to supply voltage	X75:20		E	1
510458	ZE 5: output 4 positive switching transistor: disruption	X75:20		E	1
510460	ZE 5: output 4 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X75:20		E	1
510462	ZE 5: output 4 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X75:20		E	1
510463	ZE 5: output 4 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X75:20		E	1
510470	ZE 5: output 4 measuring system defect no crane operation possible entry in error list	X75:20		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
510471	ZE 5: output 4 short circuit to ground or transistor defect	X75:20		E	1
510472	ZE 5: output 4 outside source feeding	X75:20		E	1
510473	ZE 5: output 4 open circuit or short circuit to supply voltage/ground	X75:20		E	1
510512	ZE 5: output 5 short circuit to ground	X75:21		E	1
510513	ZE 5: output 5 open signal circuits	X75:21		E	1
510514	ZE 5: output 5 short circuit to supply voltage	X75:21		E	1
510554	ZE 5: output 5 short circuit to supply voltage	X75:21		E	1
510558	ZE 5: output 5 positive switching transistor: disruption	X75:21		E	1
510560	ZE 5: output 5 safety chain error, diode defect or safety contact sticking report of error, otherwise no reaction checking of safety contact and diode	X75:21		E	1
510562	ZE 5: output 5 Error safety chain, contact "ZE OK" sticking report of error, otherwise no reaction Check of ZE OK relay / contact	X75:21		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
510563	ZE 5: output 5 Error safety chain, output error report of error, otherwise no reaction Check of output/ ZE/ switching	X75:21		E	1
510570	ZE 5: output 5 measuring system defect no crane operation possible entry in error list	X75:21		E	1
510571	ZE 5: output 5 short circuit to ground or transistor defect	X75:21		E	1
510572	ZE 5: output 5 outside source feeding	X75:21		E	1
510573	ZE 5: output 5 open circuit or short circuit to supply voltage/ground	X75:21		E	1
510612	ZE 5: output 6 short circuit to ground	X75:22		E	1
510613	ZE 5: output 6 open signal circuits	X75:22		E	1
510614	ZE 5: output 6 short circuit to supply voltage	X75:22		E	1
510654	ZE 5: output 6 short circuit to supply voltage	X75:22		E	1
510658	ZE 5: output 6 positive switching transistor: disruption	X75:22		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
510670	ZE 5: output 6 measuring system defect no crane operation possible entry in error list	X75:22		E	1
510671	ZE 5: output 6 short circuit to ground or transistor defect	X75:22		E	1
510672	ZE 5: output 6 outside source feeding	X75:22		E	1
510673	ZE 5: output 6 open circuit or short circuit to supply voltage/ground	X75:22		E	1
510712	ZE 5: output 7 short circuit to ground	X75:23		E	1
510713	ZE 5: output 7 open signal circuits	X75:23		E	1
510714	ZE 5: output 7 short circuit to supply voltage	X75:23		E	1
510754	ZE 5: output 7 short circuit to supply voltage	X75:23		E	1
510758	ZE 5: output 7 positive switching transistor: disruption	X75:23		E	1
510770	ZE 5: output 7 measuring system defect no crane operation possible entry in error list	X75:23		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
510771	ZE 5: output 7 short circuit to ground or transistor defect	X75:23		E	1
510772	ZE 5: output 7 outside source feeding	X75:23		E	1
510773	ZE 5: output 7 open circuit or short circuit to supply voltage/ground	X75:23		E	1
514959	ZE 5: all output supply voltage missing	X75		E	1
515059	ZE 5: output group 0 supply voltage missing	X75:12		E	1
515159	ZE 5: output group 1 supply voltage missing	X75:24		E	1
515259	ZE 5: output group 2 supply voltage missing	X75:25		E	1
515359	ZE 5: output group 3 supply voltage missing	X75:13		E	1
520004	ZE 5: LSB participant address 0 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
520005	ZE 5: LSB participant address 0 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
520018	ZE 5: LSB participant address 0 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
520050	ZE 5: LSB participant address 0 reports an incorrect sensor type  Check Bus configuration in LSB test system, remove faulty / incorrect users from Bus	X635E:z14/z16		E	1
520050	ZE 5: LSB participant address 0 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
520051	ZE 5: LSB participant address 0 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
520053	ZE 5: LSB participant address 0 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
520054	ZE 5: LSB participant address 0 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
520064	ZE 5: LSB participant address 0 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
520065	ZE 5: LSB participant address 0 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
520066	ZE 5: LSB participant address 0 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
520067	ZE 5: LSB participant address 0 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
520104	ZE 5: LSB participant address 1 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
520105	ZE 5: LSB participant address 1 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
520118	ZE 5: LSB participant address 1 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
520150	ZE 5: LSB participant address 1 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
520151	ZE 5: LSB participant address 1 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
520153	ZE 5: LSB participant address 1 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
520154	ZE 5: LSB participant address 1 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
520164	ZE 5: LSB participant address 1 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
520165	ZE 5: LSB participant address 1 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
520166	ZE 5: LSB participant address 1 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
520167	ZE 5: LSB participant address 1 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
520204	ZE 5: LSB participant address 2 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
520205	ZE 5: LSB participant address 2 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
520218	ZE 5: LSB participant address 2 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
520250	ZE 5: LSB participant address 2 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
520251	ZE 5: LSB participant address 2 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
520253	ZE 5: LSB participant address 2 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
520254	ZE 5: LSB participant address 2 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
520264	ZE 5: LSB participant address 2 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
520265	ZE 5: LSB participant address 2 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
520266	ZE 5: LSB participant address 2 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
520267	ZE 5: LSB participant address 2 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
520904	ZE 5: LSB participant address 9 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
520905	ZE 5: LSB participant address 9 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
520918	ZE 5: LSB participant address 9 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
520950	ZE 5: LSB participant address 9 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
520951	ZE 5: LSB participant address 9 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
520953	ZE 5: LSB participant address 9 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
520954	ZE 5: LSB participant address 9 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
520964	ZE 5: LSB participant address 9 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
520965	ZE 5: LSB participant address 9 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
520966	ZE 5: LSB participant address 9 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
520967	ZE 5: LSB participant address 9 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
521404	ZE 5: LSB participant address 14 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
521405	ZE 5: LSB participant address 14 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
521418	ZE 5: LSB participant address 14 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
521450	ZE 5: LSB participant address 14 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
521451	ZE 5: LSB participant address 14 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
521453	ZE 5: LSB participant address 14 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
521454	ZE 5: LSB participant address 14 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
521464	ZE 5: LSB participant address 14 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
521465	ZE 5: LSB participant address 14 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
521466	ZE 5: LSB participant address 14 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
521467	ZE 5: LSB participant address 14 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
521504	ZE 5: LSB participant address 15 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
521505	ZE 5: LSB participant address 15 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
521518	ZE 5: LSB participant address 15 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
521550	ZE 5: LSB participant address 15 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
521551	ZE 5: LSB participant address 15 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
521553	ZE 5: LSB participant address 15 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
521554	ZE 5: LSB participant address 15 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
521564	ZE 5: LSB participant address 15 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
521565	ZE 5: LSB participant address 15 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
521566	ZE 5: LSB participant address 15 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
521567	ZE 5: LSB participant address 15 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
521604	ZE 5: LSB participant address 16 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
521605	ZE 5: LSB participant address 16 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
521618	ZE 5: LSB participant address 16 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
521650	ZE 5: LSB participant address 16 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
521651	ZE 5: LSB participant address 16 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
521653	ZE 5: LSB participant address 16 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
521654	ZE 5: LSB participant address 16 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
521664	ZE 5: LSB participant address 16 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
521665	ZE 5: LSB participant address 16 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
521666	ZE 5: LSB participant address 16 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
521667	ZE 5: LSB participant address 16 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
521704	ZE 5: LSB participant address 17 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
521705	ZE 5: LSB participant address 17 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
521718	ZE 5: LSB participant address 17 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
521750	ZE 5: LSB participant address 17 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
521751	ZE 5: LSB participant address 17 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
521753	ZE 5: LSB participant address 17 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
521754	ZE 5: LSB participant address 17 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
521764	ZE 5: LSB participant address 17 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
521765	ZE 5: LSB participant address 17 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
521766	ZE 5: LSB participant address 17 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
521767	ZE 5: LSB participant address 17 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
521804	ZE 5: LSB participant address 18 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
521805	ZE 5: LSB participant address 18 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
521818	ZE 5: LSB participant address 18 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
521850	ZE 5: LSB participant address 18 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
521851	ZE 5: LSB participant address 18 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
521853	ZE 5: LSB participant address 18 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
521854	ZE 5: LSB participant address 18 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
521864	ZE 5: LSB participant address 18 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
521865	ZE 5: LSB participant address 18 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
521866	ZE 5: LSB participant address 18 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
521867	ZE 5: LSB participant address 18 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
521904	ZE 5: LSB participant address 19 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
521905	ZE 5: LSB participant address 19 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
521918	ZE 5: LSB participant address 19 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
521950	ZE 5: LSB participant address 19 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
521951	ZE 5: LSB participant address 19 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
521953	ZE 5: LSB participant address 19 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
521954	ZE 5: LSB participant address 19 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
521964	ZE 5: LSB participant address 19 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
521965	ZE 5: LSB participant address 19 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
521966	ZE 5: LSB participant address 19 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
521967	ZE 5: LSB participant address 19 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
522004	ZE 5: LSB participant address 20 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
522005	ZE 5: LSB participant address 20 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
522018	ZE 5: LSB participant address 20 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
522050	ZE 5: LSB participant address 20 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
522051	ZE 5: LSB participant address 20 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
522053	ZE 5: LSB participant address 20 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
522054	ZE 5: LSB participant address 20 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
522064	ZE 5: LSB participant address 20 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
522065	ZE 5: LSB participant address 20 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
522066	ZE 5: LSB participant address 20 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
522067	ZE 5: LSB participant address 20 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
522104	ZE 5: LSB participant address 21 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
522105	ZE 5: LSB participant address 21 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
522118	ZE 5: LSB participant address 21 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
522150	ZE 5: LSB participant address 21 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
522151	ZE 5: LSB participant address 21 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
522153	ZE 5: LSB participant address 21 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
522154	ZE 5: LSB participant address 21 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
522164	ZE 5: LSB participant address 21 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
522165	ZE 5: LSB participant address 21 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
522166	ZE 5: LSB participant address 21 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
522167	ZE 5: LSB participant address 21 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
522504	ZE 5: LSB participant address 25 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
522505	ZE 5: LSB participant address 25 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
522518	ZE 5: LSB participant address 25 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
522550	ZE 5: LSB participant address 25 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
522551	ZE 5: LSB participant address 25 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
522553	ZE 5: LSB participant address 25 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
522554	ZE 5: LSB participant address 25 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
522564	ZE 5: LSB participant address 25 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
522565	ZE 5: LSB participant address 25 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
522566	ZE 5: LSB participant address 25 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
522567	ZE 5: LSB participant address 25 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
522604	ZE 5: LSB participant address 26 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
522605	ZE 5: LSB participant address 26 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
522618	ZE 5: LSB participant address 26 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
522650	ZE 5: LSB participant address 26 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
522651	ZE 5: LSB participant address 26 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
522653	ZE 5: LSB participant address 26 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
522654	ZE 5: LSB participant address 26 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
522664	ZE 5: LSB participant address 26 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
522665	ZE 5: LSB participant address 26 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
522666	ZE 5: LSB participant address 26 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
522667	ZE 5: LSB participant address 26 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
522704	ZE 5: LSB participant address 27 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
522705	ZE 5: LSB participant address 27 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
522718	ZE 5: LSB participant address 27 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
522750	ZE 5: LSB participant address 27 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
522751	ZE 5: LSB participant address 27 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
522753	ZE 5: LSB participant address 27 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
522754	ZE 5: LSB participant address 27 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
522764	ZE 5: LSB participant address 27 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
522765	ZE 5: LSB participant address 27 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
522766	ZE 5: LSB participant address 27 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
522767	ZE 5: LSB participant address 27 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
522904	ZE 5: LSB participant address 29 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
522905	ZE 5: LSB participant address 29 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
522918	ZE 5: LSB participant address 29 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
522950	ZE 5: LSB participant address 29 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
522951	ZE 5: LSB participant address 29 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2
522953	ZE 5: LSB participant address 29 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
522954	ZE 5: LSB participant address 29 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
522964	ZE 5: LSB participant address 29 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
522965	ZE 5: LSB participant address 29 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
522966	ZE 5: LSB participant address 29 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
522967	ZE 5: LSB participant address 29 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
523004	ZE 5: LSB participant address 30 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X635E:z14/z16		E	1
523005	ZE 5: LSB participant address 30 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X635E:z14/z16		E	1
523018	ZE 5: LSB participant address 30 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X635E:z14/z16		E	0
523050	ZE 5: LSB participant address 30 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X635E:z14/z16		E	2
523051	ZE 5: LSB participant address 30 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X635E:z14/z16		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
523053	ZE 5: LSB participant address 30 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X635E:z14/z16		E	1
523054	ZE 5: LSB participant address 30 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X635E:z14/z16		E	2
523064	ZE 5: LSB participant address 30 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X635E:z14/z16		E	1
523065	ZE 5: LSB participant address 30 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X635E:z14/z16		E	2
523066	ZE 5: LSB participant address 30 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X635E:z14/z16		E	2
523067	ZE 5: LSB participant address 30 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X635E:z14/z16		E	1
523252	ZE 5: Control data transfer LSB has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X635E:z14/z16		E	0
523255	ZE 5: Control data transfer LSB Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635E:z14/z16		E	2
523256	ZE 5: Control data transfer LSB Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X635E:z14/z16		E	2
523257	ZE 5: Control data transfer LSB has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X635E:z14/z16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
523258	ZE 5: Control data transfer LSB recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X635E:z14/z16		E	0
523259	ZE 5: Control data transfer LSB recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X635E:z14/z16		E	0
523260	ZE 5: Control data transfer LSB driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X635E:z14/z16		E	2
523261	ZE 5: Control data transfer LSB driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malfunc. error will be eliminated by system itself otherwise new Software necessary for error elimination	X635E:z14/z16		E	2
523262	ZE 5: Control data transfer LSB Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X635E:z14/z16		E	2
533100	ZE 5: Control ballasting / counterweight carriage Limit switch "BW bolted" faulty / not present - Shut-down BW active Control op. type with counterweight carriage is switched over to - req.s for operation with BW must be met. Error remedy see corresponding system error.			E	
533101	ZE 5: Control ballasting / counterweight carriage Invalid assembly condition - BW inserted and FB inserted Shut-down due to unclear recognition of assembly condition. Check of cabling - short-circuit following earthing or line interruption, checking of inputs.			E	
533102	ZE 5: Control ballasting / counterweight carriage Invalid assembly condition - BW bolted and FB inserted Shut-down due to unclear recognition of assembly condition. Checking of cabling - short-circuit following earthing or line interruption or check position of bolting cylinder BW			E	
533103	ZE 5: Control ballasting / counterweight carriage Invalid assembly condition - BW inserted and bolted and FB inserted Shut-down due to unclear recognition of assembly condition. Checking of cabling - short-circuit following earthing or line interruption or check position of bolting cylinder BW			E	
533104	ZE 5: Control ballasting / counterweight carriage Invalid assembly condition - B inserted and FB not inserted Shut-down due to unclear recognition of assembly condition. Check of cabling - short-circuit following supply voltage or earthing or line interruption.			E	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
533105	ZE 5: Control ballasting / counterweight carriage Invalid assembly condition - BW inserted and B inserted Shut-down due to unclear recognition of assembly condition. Check of cabling - short-circuit following supply voltage or earthing or line interruption.			E	
533106	ZE 5: Control ballasting / counterweight carriage Invalid assembly condition - BW bolted and B inserted Shut-down due to unclear recognition of assembly condition. Checking of cabling - short-circuit following earthing or line interruption or check position of bolting cylinder BW			E	
533107	ZE 5: Control ballasting / counterweight carriage Invalid assembly condition - BW inserted and bolted and B inserted Shut-down due to unclear recognition of assembly condition. Checking of cabling - short-circuit following earthing or line interruption or check position of bolting cylinder BW			E	
533108	ZE 5: Control ballasting / counterweight carriage Invalid assembly condition - BW bolted FB inserted and B inserted Shut-down due to unclear recognition of assembly condition. Checking of cabling - short-circuit following earthing or line interruption or check position of bolting cylinder BW			E	
533112	ZE 5: Control ballasting / counterweight carriage Safety test counterweight carriage reports error - check control BW Cont. carries on running, however poss. error function as faulty recognised system component during safety test Switch over derr. monitor to count. carriage and read error reports in error diagnosis system of counterweight carriage.			E	
533113	ZE 5: Control ballasting / counterweight carriage Control of axles without func., relevant sensor faulty/not present Control of the axles is switched off, axles remain in the last set condition Reestablish function of the respective sensor - error remedy see corresponding system error.			E	
533114	ZE 5: Control ballasting / counterweight carriage Data trans (LSB ) between crane and counte. carriage interrupted Functions affected by the transmission fault will not be carried out. Error remedy see corresponding system error or operating error.			E	
533900	ZE 5: crane control signal engine speed defective/missing output of error, rated speed will now be adjusted for the power limitation check engine electronics, with permanent error contact after-sales service			E	1
533901	ZE 5: crane control Signal current engine momentum - Maximum erroneous / missing output of error, rated speed will now be adjusted for the power limitation check engine electronics, with permanent error contact after-sales service			E	1
536102	ZE 5: Operation ballasting / counterweight carriage Shut-down counterweight on ground Operation conditional shut-down, may not be shunted. If possible raise the wheels via lifting the load or reducing the mounted suspended counterweight			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
536103	ZE 5: Operation ballasting / counterweight carriage Shut-down support counterweight carriage is not retracted Operation conditional shut-down, may not be shunted. Retract support cylinder counterweight carriage completely.			B	
536104	ZE 5: Operation ballasting / counterweight carriage Shut-down counterweight carriage telescoping blocked Operation conditional shut-down, shunting via lifting up keyswitch BW - only switch on if BW safely lifted Press "Tow-travel on" key until the wheels are in the travel direction and the indicator lamp remains lit.			B	
536105	ZE 5: Operation ballasting / counterweight carriage Shut-down keys counterweight "Up" / "Down" actuated simultaneously Operation conditional shut-down, may not be shunted. Release one of the keys or check the switch and the cabling.			B	
536106	ZE 5: Operation ballasting / counterweight carriage Shut-down keys counterweight "In" / "Out" actuated simultaneously Operation conditional shut-down, may not be shunted. Release one of the keys or check the switch and the cabling.			B	
536107	ZE 5: Operation ballasting / counterweight carriage Shut-down keys support BW "Up" / "Down" actuated simultaneously Operation conditional shut-down, may not be shunted. Release one of the keys or check the switch and the cabling.			B	
536108	ZE 5: Operation ballasting / counterweight carriage Counterweight carriage (BW) is inserted but not yet bolted report of error, otherwise no reaction Bolt or unplug counterweight carriage.			B	
536109	ZE 5: Operation ballasting / counterweight carriage BW is bolted but not inserted - dummy plug is inserted Control op. type with counterweight carriage is switched over to - req.s for operation with BW must be met. Unbolt or plug in counterweight carriage.			B	
536110	ZE 5: Operation ballasting / counterweight carriage No counterweight inserted or dummy plug not inserted report of error, otherwise no reaction Plug in dummy plug.			B	
536111	ZE 5: Operation ballasting / counterweight carriage Counterweight carriage (BW) is bolted but not inserted Control op. type with counterweight carriage is switched over to - req.s for operation with BW must be met. Unbolt or plug in counterweight carriage.			B	
536112	ZE 5: Operation ballasting / counterweight carriage Leveling (B/BW)without function level sensor(B/BW) erroneous/missing Levelling is switched off, switches for cylinder A - Stop and cylinder B - Stop however carry on functioning. Check defective or missing level sensor. See also corresponding system error.			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
536118	ZE 5: Operation ballasting / counterweight carriage Shut-down measuring point 1 < F min Operation conditional shut-down, may not be shunted. Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
536119	ZE 5: Operation ballasting / counterweight carriage no or invalid operation mode shut-down Operation conditional switch off, may not be shunted enter correct operation mode or dismantle accessory parts - shut-down cannot be shunted			B	
536120	ZE 5: Operation ballasting / counterweight carriage LMB shut-down operational shut down Remedy cause of "LMB Stop" see error report LMB - shut-down may be shunted via assembly switch (danger).			B	
536121	ZE 5: Operation ballasting / counterweight carriage Shut-down measuring point 1 > F max - operation operational shut down Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
536122	ZE 5: Operation ballasting / counterweight carriage Shut-down measuring point 1 > F max - assembly Operation conditional switch off, may not be shunted Lower load or raise derrick ballast if possible or lay on additional derrick counterweight if possible.			B	
536124	ZE 5: Operation ballasting / counterweight carriage Shut-down measuring point 1 < F min and count. utilisation > 50% Operation conditional switch off, may not be shunted Lower load or set down derrick counterweight if possible or wind off luffing gear if possible.			B	
536154	ZE 5: Operation ballasting / counterweight carriage Shut-down overtopping guard cylinder main boom in bump stop Operation conditional switch off, may not be shunted Wind off main boom - adjusting winch until overtopping guard cylinder no longer in bump stop			B	
536155	ZE 5: Operation ballasting / counterweight carriage Shut-down overtopping guard cylinder derrick boom in bump stop Operation conditional switch off, may not be shunted Wind off derrick boom - adjusting winch until overtopping guard cylinder no longer in bump stop			B	
536170	ZE 5: Operation ballasting / counterweight carriage Shut-down lim switch "Count. on ground" vo. left faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
536171	ZE 5: Operation ballasting / counterweight carriage Shut-down lim switch "Count. on ground" vo. right faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
536172	ZE 5: Operation ballasting / counterweight carriage Shut-down lim switch "Count. on ground" hi. left faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
536173	ZE 5: Operation ballasting / counterweight carriage Shut-down lim switch "Count. on ground" hi. right faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
536174	ZE 5: Operation ballasting / counterweight carriage Shut-down limit switch "Support retracted" vo. faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
536175	ZE 5: Operation ballasting / counterweight carriage Shut-down limit switch "Support retracted" hi. faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
536185	ZE 5: Operation ballasting / counterweight carriage Shut-down limit switch "RFP Main boom" right faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
536186	ZE 5: Operation ballasting / counterweight carriage Shut-down limit switch "RFP Main boom" links faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
536187	ZE 5: Operation ballasting / counterweight carriage Shut-down limit switch "Overtop guard cyl D" right faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
536188	ZE 5: Operation ballasting / counterweight carriage Shut-down limit switch "Overtop guard cyl D" left faulty/not present Operation conditional switch off, may not be shunted Release master switch - error remedying see corresponding system error.			B	
536942	ZE 5: Operation crane control Emergency op. crane cont. switched on with start test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1
536943	ZE 5: Operation crane control Emergency op. crane control switched on during test-safety chain report of error, otherwise no reaction Switch off emergency operation, restart LICCON, test safety chain will then be carried out			B	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
587252	E/A-Modul 5: Control data transfer LSB-B has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X653:4/6		E	0
587255	E/A-Modul 5: Control data transfer LSB-B Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X653:4/6		E	2
587256	E/A-Modul 5: Control data transfer LSB-B Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X653:4/6		E	2
587257	E/A-Modul 5: Control data transfer LSB-B has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X653:4/6		E	1
587258	E/A-Modul 5: Control data transfer LSB-B recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X653:4/6		E	0
587259	E/A-Modul 5: Control data transfer LSB-B recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X653:4/6		E	0
587260	E/A-Modul 5: Control data transfer LSB-B driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X653:4/6		E	2
587261	E/A-Modul 5: Control data transfer LSB-B driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malf. error will be eliminated by system itself otherwise new Software necessary for error elimination	X653:4/6		E	2
587262	E/A-Modul 5: Control data transfer LSB-B Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X653:4/6		E	2
661001	E/A-Modul 6: system error OS-C167 initialising error processor-register erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
661002	E/A-Modul 6: system error OS-C167 initialising error test total in EPROM/FLASH erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
661006	E/A-Modul 6: system error OS-C167 initialising error RAM erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
661013	E/A-Modul 6: system error OS-C167 test total in EPROM/FLASH erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
661016	E/A-Modul 6: system error OS-C167 system-, driver-watchdog expired error indication on display note error report, ignition ON/OFF, with repeated occurrence --> inform after-sales service			E	2
661068	E/A-Modul 6: system error OS-C167 impermissible interrupt error indication on display note error report, ignition ON/OFF, with repeated occurrence --> inform after-sales service			E	2
661071	E/A-Modul 6: system error OS-C167 Invalid configuration or Firmware error indication on display re-load Software from ZE			E	2
661080	E/A-Modul 6: system error OS-C167 fatal internal software error error indication on display note error report, ignition ON/OFF, with repeated occurrence --> inform after-sales service			E	2
661082	E/A-Modul 6: system error OS-C167 hardware-watchdog erroneous error indication on display ignition ON/OFF, with repeated occurrence --> replace E/A-Modul			E	2
672052	E/A-Modul 6: input/output DEA0 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:17		E	1
672053	E/A-Modul 6: input/output DEA0 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
672054	E/A-Modul 6: input/output DEA0 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:17		E	1
672055	E/A-Modul 6: input/output DEA0 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:17		E	1
672152	E/A-Modul 6: input/output DEA1 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:15		E	1
672153	E/A-Modul 6: input/output DEA1 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:15		E	1
672154	E/A-Modul 6: input/output DEA1 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:15		E	1
672155	E/A-Modul 6: input/output DEA1 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:15		E	1
672252	E/A-Modul 6: input/output DEA2 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:13		E	1
672253	E/A-Modul 6: input/output DEA2 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:13		E	1
672254	E/A-Modul 6: input/output DEA2 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:13		E	1
672255	E/A-Modul 6: input/output DEA2 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:13		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
672352	E/A-Modul 6: input/output DEA3 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:11		E	1
672353	E/A-Modul 6: input/output DEA3 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:11		E	1
672354	E/A-Modul 6: input/output DEA3 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:11		E	1
672355	E/A-Modul 6: input/output DEA3 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:11		E	1
672452	E/A-Modul 6: input/output DEA4 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:9		E	1
672453	E/A-Modul 6: input/output DEA4 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:9		E	1
672454	E/A-Modul 6: input/output DEA4 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:9		E	1
672455	E/A-Modul 6: input/output DEA4 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:9		E	1
672552	E/A-Modul 6: input/output DEA5 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:7		E	1
672553	E/A-Modul 6: input/output DEA5 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:7		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
672554	E/A-Modul 6: input/output DEA5 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:7		E	1
672555	E/A-Modul 6: input/output DEA5 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:7		E	1
672652	E/A-Modul 6: input/output DEA6 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:5		E	1
672653	E/A-Modul 6: input/output DEA6 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:5		E	1
672654	E/A-Modul 6: input/output DEA6 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:5		E	1
672655	E/A-Modul 6: input/output DEA6 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:5		E	1
672752	E/A-Modul 6: input/output DEA7 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:3		E	1
672753	E/A-Modul 6: input/output DEA7 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:3		E	1
672754	E/A-Modul 6: input/output DEA7 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:3		E	1
672755	E/A-Modul 6: input/output DEA7 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:3		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
673782	E/A-Modul 6: voltage input E7 short circuit to ground, open line, constant current 10 mA incorrect Display LICCON: ??? % check input signal on the E/A-Modul or sensor	X662:3		E	1
673783	E/A-Modul 6: voltage input E7 short circuit to supply voltage, open line, lack of voltage Display LICCON: ??? % check input signal on the E/A-Modul or sensor	X662:3		E	1
679052	E/A-Modul 6: output A0 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:18		E	1
679053	E/A-Modul 6: output A0 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:18		E	1
679054	E/A-Modul 6: output A0 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:18		E	1
679055	E/A-Modul 6: output A0 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:18		E	1
679152	E/A-Modul 6: output A1 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:16		E	1
679153	E/A-Modul 6: output A1 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:16		E	1
679154	E/A-Modul 6: output A1 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:16		E	1
679155	E/A-Modul 6: output A1 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:16		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
679250	E/A-Modul 6: bridge output A2 short circuit to ground, junction not supplied error report on display check output for short, check current supply of load, if necessary replace E/A-Modul	X663:14		E	1
679251	E/A-Modul 6: bridge output A2 short circuit to supply voltage, excessive temperature error report on display check output for short, check output load (measure load current), if necessary replace E/A-Modul	X663:14		E	1
679252	E/A-Modul 6: bridge output A2 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:14		E	1
679253	E/A-Modul 6: bridge output A2 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:14		E	1
679254	E/A-Modul 6: bridge output A2 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:14		E	1
679255	E/A-Modul 6: bridge output A2 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:14		E	1
679350	E/A-Modul 6: bridge output A3 short circuit to ground, junction not supplied error report on display check output for short, check current supply of load, if necessary replace E/A-Modul	X663:12		E	1
679351	E/A-Modul 6: bridge output A3 short circuit to supply voltage, excessive temperature error report on display check output for short, check output load (measure load current), if necessary replace E/A-Modul	X663:12		E	1
679352	E/A-Modul 6: bridge output A3 output open, to low load, short circuit to supply voltage error report on display check output for broken wire, check load on output (measure load current), if necessary replace E/A-Modul	X663:12		E	1
679353	E/A-Modul 6: bridge output A3 transistor current supply insufficient or missing error report on display check current supply and fuse E/A-Modul, if necessary replace E/A-Modul	X663:12		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
679354	E/A-Modul 6: bridge output A3 short circuit to supply voltage error report on display check output for short, if necessary replace E/A-Modul	X663:12		E	1
679355	E/A-Modul 6: bridge output A3 excessive temperature, short circuit to ground or overload error report on display check output for short, current supply, check fuse of E/A-Modul, if necessary replace E/A-Modul	X663:12		E	1
684050	E/A-Modul 6: LSB-B participant address 0 reports an incorrect sensor type  Check Bus configuration in LSB test system, remove faulty / incorrect users from Bus	X663:4/6		E	1
684104	E/A-Modul 6: LSB-B participant address 1 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X663:4/6		E	1
684105	E/A-Modul 6: LSB-B participant address 1 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X663:4/6		E	1
684118	E/A-Modul 6: LSB-B participant address 1 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X663:4/6		E	0
684150	E/A-Modul 6: LSB-B participant address 1 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X663:4/6		E	2
684151	E/A-Modul 6: LSB-B participant address 1 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X663:4/6		E	2
684153	E/A-Modul 6: LSB-B participant address 1 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X663:4/6		E	1
684154	E/A-Modul 6: LSB-B participant address 1 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X663:4/6		E	2



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
684164	E/A-Modul 6: LSB-B participant address 1 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X663:4/6		E	1
684165	E/A-Modul 6: LSB-B participant address 1 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X663:4/6		E	2
684166	E/A-Modul 6: LSB-B participant address 1 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X663:4/6		E	2
684167	E/A-Modul 6: LSB-B participant address 1 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X663:4/6		E	1
684404	E/A-Modul 6: LSB-B participant address 4 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X663:4/6		E	1
684405	E/A-Modul 6: LSB-B participant address 4 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X663:4/6		E	1
684418	E/A-Modul 6: LSB-B participant address 4 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X663:4/6		E	0
684450	E/A-Modul 6: LSB-B participant address 4 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X663:4/6		E	2
684451	E/A-Modul 6: LSB-B participant address 4 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X663:4/6		E	2
684453	E/A-Modul 6: LSB-B participant address 4 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X663:4/6		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
684454	E/A-Modul 6: LSB-B participant address 4 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X663:4/6		E	2
684464	E/A-Modul 6: LSB-B participant address 4 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X663:4/6		E	1
684465	E/A-Modul 6: LSB-B participant address 4 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X663:4/6		E	2
684466	E/A-Modul 6: LSB-B participant address 4 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X663:4/6		E	2
684467	E/A-Modul 6: LSB-B participant address 4 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X663:4/6		E	1
684504	E/A-Modul 6: LSB-B participant address 5 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X663:4/6		E	1
684505	E/A-Modul 6: LSB-B participant address 5 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X663:4/6		E	1
684518	E/A-Modul 6: LSB-B participant address 5 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X663:4/6		E	0
684550	E/A-Modul 6: LSB-B participant address 5 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X663:4/6		E	2
684551	E/A-Modul 6: LSB-B participant address 5 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X663:4/6		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
684553	E/A-Modul 6: LSB-B participant address 5 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X663:4/6		E	1
684554	E/A-Modul 6: LSB-B participant address 5 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X663:4/6		E	2
684564	E/A-Modul 6: LSB-B participant address 5 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X663:4/6		E	1
684565	E/A-Modul 6: LSB-B participant address 5 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X663:4/6		E	2
684566	E/A-Modul 6: LSB-B participant address 5 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X663:4/6		E	2
684567	E/A-Modul 6: LSB-B participant address 5 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X663:4/6		E	1
684704	E/A-Modul 6: LSB-B participant address 7 level exceeded report of error, otherwise no reaction check sensor installation, check pre-attenuation of sensor, clean dirt from sensor, replace sensor when defect	X663:4/6		E	1
684705	E/A-Modul 6: LSB-B participant address 7 below minimum level report of error, otherwise no reaction check sensor installation, eliminate clogging or damage to sensor, if defect replace sensor	X663:4/6		E	1
684718	E/A-Modul 6: LSB-B participant address 7 excess temperature report of error, otherwise no reaction operate sensor in permitted temperature range, check sensor heat supply and carry off	X663:4/6		E	0
684750	E/A-Modul 6: LSB-B participant address 7 reports an incorrect sensor type entry in error memory, otherwise no reaction, the answer will be interpreted according to the set type characteristics check address assignment over test system (LSB-screen), install correct sensor	X663:4/6		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
684751	E/A-Modul 6: LSB-B participant address 7 was not configured for the block transfer entry in error memory, otherwise no reaction, no block transfer will be carried out configuration problem, load new Software	X663:4/6		E	2
684753	E/A-Modul 6: LSB-B participant address 7 no longer reports or withdrawn during running period entry in error memory, participant will be deactivated, data buffer to the application will be set to 0 check connection, if connection OK then replace sensor	X663:4/6		E	1
684754	E/A-Modul 6: LSB-B participant address 7 Features other settings (parameters) as pre-entered set values entry in error memory, or no reaction, the sensor data could be incorrect, due to incorrect sensor config check parameter set/real value through test system (LSB-screen), set sensor to default value	X663:4/6		E	2
684764	E/A-Modul 6: LSB-B participant address 7 reports tolerable error in self-test entry in error memory, otherwise no reaction; note only: sensor still functions correctly check sensor, clean if necessary, with repeated occurrence replace sensor	X663:4/6		E	1
684765	E/A-Modul 6: LSB-B participant address 7 reports intolerable error in self-test entry in error memory, otherwise no reaction, the error free operation is no longer guaranteed replace sensor immediately	X663:4/6		E	2
684766	E/A-Modul 6: LSB-B participant address 7 with software version, that is no longer compatible entry in error memory, otherwise no reaction, it will be tried as far as possible to work with the sensor replace sensor through new part	X663:4/6		E	2
684767	E/A-Modul 6: LSB-B participant address 7 supports no download function entry in error memory, otherwise no reaction, no download can be carried out no download to be carried out	X663:4/6		E	1
687252	E/A-Modul 6: Control data transfer LSB-B has recognised Bus collisions, communication interrupted entry in error memory, driver draws itself back from bus, possible release of reset and re-booting of network with temporary malfunctions error will be eliminated from system itself, otherwise check address assignment of sensor	X663:4/6		E	0
687255	E/A-Modul 6: Control data transfer LSB-B Bus connection faulty/defect, short circuit to supply voltage entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X663:4/6		E	2
687256	E/A-Modul 6: Control data transfer LSB-B Bus connection faulty/defect, no supply/short circuit to earth entry in error memory, driver tries permanently to re-boot bus, bus boots as soon as error is eliminated check bus line, sensor (withdraw) and bus circuit board for shorts, check bus fuse on bus circuit board	X663:4/6		E	2

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
687257	E/A-Modul 6: Control data transfer LSB-B has recognised network re-set (data transfer starts again) entry in error memory, driver re-starts and runs re-booting of network check bus lines, withdraw sensors successively from bus until malfunction source recognised, replace defective part	X663:4/6		E	1
687258	E/A-Modul 6: Control data transfer LSB-B recognised participant with incorrect baud rate in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated from system itself, check address assignment of sensors	X663:4/6		E	0
687259	E/A-Modul 6: Control data transfer LSB-B recognised communication breakdown in bus entry in error memory, driver re-starts and runs re-booting of network will be eliminated by driver through re-booting of network	X663:4/6		E	0
687260	E/A-Modul 6: Control data transfer LSB-B driver error: no order to carry out entry in error memory, driver runs on normally and waits for bus connection of participant with temporary malfunctions error will be eliminated by system itself, with incorrect configuration install new software	X663:4/6		E	2
687261	E/A-Modul 6: Control data transfer LSB-B driver error: undefined message appears entry in error memory, driver re-starts and runs re-booting of network with temporary malf. error will be eliminated by system itself otherwise new Software necessary for error elimination	X663:4/6		E	2
687262	E/A-Modul 6: Control data transfer LSB-B Driver error: Initialization error entry in error memory, driver re-starts and runs re-booting of network new Software is necessary for error elimination	X663:4/6		E	2
687530	E/A-Modul 6: CAN-participant engine Data transfer subscriber transfer cycle exceeded CAN-Information from participant has exceeded the defined cycle time check bus lines/neutral point, check defective bus participant	X665:5/6		E	0
687531	E/A-Modul 6: CAN-participant engine Data transfer faulty/missing, max. cycle time exceeded parameterised substitute values for receiver signals will be used check bus lines/neutral point, check defective bus participant	X665:5/6		E	1
689030	E/A-Modul 6: CAN-participant E/A-Modul 6 Data transfer subscriber transfer cycle exceeded CAN-Transmission will be aborted check bus lines/neutral point, replace neutral point or E/A-Modul	X665:5/6		E	0
689031	E/A-Modul 6: CAN-participant E/A-Modul 6 Data transfer faulty/missing, max. cycle time exceeded CAN-Information from participant has exceeded the defined cycle time check bus lines/neutral point, check defective bus participant	X665:5/6		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
689900	E/A-Modul 6: Control data transfer CAN internal error at Register-check Controller internal error, CAN-transmission will be aborted replace E/A-Modul	X665:5/6		E	2
689901	E/A-Modul 6: Control data transfer CAN internal error at RAM-check Controller internal error, CAN-transmission will be aborted replace E/A-Modul	X665:5/6		E	2
689902	E/A-Modul 6: Control data transfer CAN Configuration error Software internal error, CAN-transmission will be aborted replace E/A-Modul, check Software (test system ZE)	X665:5/6		E	2
689903	E/A-Modul 6: Control data transfer CAN Transfer interrupted after continuous error CAN-Transmission will be aborted check bus lines/neutral point, replace neutral point or E/A-Modul	X665:5/6		E	1
689910	E/A-Modul 6: Control data transfer CAN short-term error in bus connection re-attachment of Modul to bus transmission check bus lines/neutral point, unplug individual bus participant and check if error has been eliminated	X665:5/6		E	0
689911	E/A-Modul 6: Control data transfer CAN permanent error bus connection cyclic re-attachment of Modul to bus transmission check bus lines/neutral point, unplug individual bus participant and check if error has been eliminated	X665:5/6		E	1
689920	E/A-Modul 6: Control data transfer CAN active participant not responding parameterised substitute values for receiver signals will be used check error report for missing participant(s), test system ZE	X665:5/6		E	0
689921	E/A-Modul 6: Control data transfer CAN No active subscriber responding parameterised substitute values for receiver signals will be used in case bus system is error free, check connection of E/A-Modul to CAN-network, replace E/A-Modul	X665:5/6		E	1
689950	E/A-Modul 6: Control data transfer CAN erroneous command test system no reaction to unknown test system control command in CAN-System Software check Software (test system)	X665:5/6		E	1
692001	E/A-Modul 6: control engine long-term disruption E/A-Modul <-> engine control with permanent CAN-disruption engine control goes to emergency speed, ctrl. through E/A-Modul also emergency speed After re-establishment of the CAN-communication the motor electronics remain in emergency speed --> ignition on/off			E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
692005	E/A-Modul 6: control engine condition erroneous: CAN-signal engine ON <-> load ctrl. D+ OFF check alternator line connection to display unit, check alternator signal			E	1
692006	E/A-Modul 6: control engine condition erroneous: CAN-signal engine OFF <-> load ctrl. D+ ON check alternator line connection to display unit, check alternator signal			E	1
694190	E/A-Modul 6: LSB-bus participant ZE missing communication with participant not possible, after re-starting of bus communication error will be reset check LSB-network, check participant			E	1
695050	E/A-Modul 6: operation engine no engine start possible as engine already recognized as ON no start signal on engine check signals KI50 ignition start switch and D+ alternator			B	
695059	E/A-Modul 6: operation engine no start, CAN-connection E/A-Modul <-> engine elec. malfunc no engine start possible from crane operators cab eliminate error in CAN-bus system			B	
695063	E/A-Modul 6: operation engine no start, engine-STOP-key activated in right support unit engine start not possible check key			B	
695064	E/A-Modul 6: operation engine no start, engine-STOP-key activated in left support unit engine start not possible check key			B	
695065	E/A-Modul 6: operation engine no start, key activated in support unit engine start not possible check key			B	
930106	engine V8: control device engine Data communication CAN faulty / interrupted emergency operation check cable/plugs for shorts	X275:1/4/7		E	1
930107	engine V8: control device engine Data communication CAN cancelled emergency operation check cable/plugs for UB- or shorts to ground	X275:1/4/7		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
930208	engine V8: CAN-participant ABV (ABS/ASR) Data transfer faulty/missing, max. cycle time exceeded limited function check cable/plugs/ABS-/ASR-electronics	X275:1/4/7		E	1
930308	engine V8: CAN-participant gear Data transfer faulty/missing, max. cycle time exceeded limited function check cable/plugs/gear electronics	X275:1/4/7		E	1
930408	engine V8: CAN-participant E/A-Modul Data transfer faulty/missing, max. cycle time exceeded emergency operation check cable/plugs/E/A-Modul(e)	X275:1/4/7		E	1
930709	engine V8: speed sensor 1 gradient damage switch-over to speed 2 or engine-stop with error code 0809 check cable/plugs/sensor, distance to flywheel	X273:19/20		E	1
930809	engine V8: speed sensor 2 gradient damage switch-over to speed 2 or engine-stop with error code 0709 check cable/plugs/sensor, distance to flywheel	X273:18/21		E	1
930910	engine V8: speed 1/2 inadmissable signal difference/plausability control defective switch-over to other speed sensor or engine-stop check cable/plugs/sensor, distance to flywheel	X273:18/19/20/2 1		E	1
931002	engine V8: accelerator 1 sensor defect high/short circ. to supply voltage switch-over to accelerator 2,speed limitation, torque limitation or 20-23 check cable/plugs for UB-shorts	X274:16/17		E	1
931003	engine V8: accelerator 1 sensor defect low/short circuit to ground switch-over to accelerator 2,speed limitation, torque limitation or 20-23 check cable/plugs for breaks or short to ground	X274:16/17		E	1
931004	engine V8: accelerator 1 level exceeded switch-over to accelerator 2,speed limitation, torque limitation or 20-23 check cable/plugs for UB-shorts, check pedal unit	X274:16/17		E	1
931005	engine V8: accelerator 1 below minimum level switch-over to accelerator 2,speed limitation, torque limitation or 20-23 check cable/plugs for break or short to ground, check pedal unit	X274:16/17		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
931102	engine V8: accelerator 2 sensor defect high/short circ. to supply voltage switch-over to accelerator 1, speed limitation, torque limitation or emergency operation at error code 16-19 check cable/plugs for UB-shorts	X274:14/15		E	1
931103	engine V8: accelerator 2 sensor defect low/short circuit to ground switch-over to accelerator 1, speed limitation, torque limitation or emergency operation at error code 16-19 check cable/plugs for breaks or short to ground	X274:14/15		E	1
931104	engine V8: accelerator 2 level exceeded switch-over to accelerator 1, speed limitation, torque limitation or emergency operation at error code 16-19 check cable/plugs for UB-shorts, check pedal unit	X274:14/15		E	1
931105	engine V8: accelerator 2 below minimum level switch-over to accelerator 1, speed limitation, torque limitation or emergency operation at error code 16-19 check cable/plugs for break or short to ground, check pedal unit	X274:14/15		E	1
931201	engine V8: accelerator 1/2 unit defect gas reduction or gas withdrawal (idle) test error code 16-23, check pedal unit	X274:14/15/16/17		E	1
931210	engine V8: accelerator 1/2 inadmissible signal difference/plausability control defective gas withdrawal (idle) check pedal unit, check condition of operation brake	X274:14/15/16/17		E	1
931611	engine V8: trigger signal box EDC excess current recognition engine-Stop check cable/plugs, replace LH-ECU1, check EDC-actuator, if necessary replace injector pump	X271:7/10		E	1
931701	engine V8: signal box feedback EDC unit defect engine-Stop check cable/plugs, replace LH-ECU1, check EDC-actuator, if necessary replace injector pump	X271:13/14/15		E	1
931812	engine V8: alternator D+ short circuit to ground warning check cable/plugs for short to ground	X273:14		E	1
931813	engine V8: alternator D+ open signal circuits signal ignored check cable/plugs for breaks	X273:14		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
931814	engine V8: alternator D+ short circuit to supply voltage signal ignored check cable/plugs for UB-shorts	X273:14		E	1
931916	engine V8: supply KL30 excess voltage generate error report; Reset: automatic after error counter sequence or regulator reset check main circuit voltage, check battery	X272:1		E	1
931917	engine V8: supply KL30 voltage below required value generate error report; Reset: automatic after error counter sequence or regulator reset check main circuit voltage, check battery	X272:1		E	1
932012	engine V8: start engine KL50 short circuit to ground generate error report; Reset: automatic after error counter sequence or regulator reset check cable/plugs for short to ground	X274:13		E	1
932112	engine V8: DA, flame type heater plugs diagnosis short circuit to ground error report check cable/plugs for short to ground, replace Relaismodul	X271:9		E	1
932113	engine V8: DA, flame type heater plugs diagnosis open signal circuits shut off FGK and MVE check cable/plugs for breaks, replace Relaismodul	X271:9		E	1
932114	engine V8: DA, flame type heater plugs diagnosis short circuit to supply voltage error report check cable/plugs for UB-shorts, replace Relaismodul	X271:9		E	1
932602	engine V8: oil pressure sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X273:1/2/3		E	1
932603	engine V8: oil pressure sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X273:1/2/3		E	1
932702	engine V8: charge air pressure sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X273:4/5/6		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
932703	engine V8: charge air pressure sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X273:4/5/6		E	1
932802	engine V8: air filter sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X273:7/8/9		E	1
932803	engine V8: air filter sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X273:7/8/9		E	1
933102	engine V8: charge air temperature sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X273:12/15		E	1
933103	engine V8: charge air temperature sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X273:12/15		E	1
933202	engine V8: coolant temperature sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X273:10/11		E	1
933203	engine V8: coolant temperature sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X273:10/11		E	1
933313	engine V8: coolant level sensor open signal circuits signal ignored, substitute value used check cable/plugs for defects or breaks, replace sensor	X274:10/11		E	1
933402	engine V8: oil temperature sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X273:16/17		E	1
933403	engine V8: oil temperature sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X273:16/17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
933601	engine V8: trigger flame type heater plug(s) FGK unit defect shut off FGK and MVE check cable/plugs for defects or breaks, check FGK, replace Relaismodul	X271:4		E	1
933614	engine V8: trigger flame type heater plug(s) FGK short circuit to supply voltage	X271:4		E	1
933615	engine V8: trigger flame type heater plug(s) FGK open electric circuit error report check cable/plugs for breaks, replace Relaismodul	X271:4		E	1
933618	engine V8: trigger flame type heater plug(s) FGK excess temperature shut off FGK and MVE check cable/plugs for short to ground, replace Relaismodul	X271:4		E	1
933714	engine V8: solenoid valve additional flow for starting short circuit to supply voltage	X271:6		E	1
933715	engine V8: solenoid valve additional flow for starting open electric circuit FSA data defective, FGK activation removed, MVE reset: automatic after error counter sequence, after regulator reset	X271:6		E	1
933718	engine V8: solenoid valve additional flow for starting excess temperature shut off FGK and MVE check cable/plugs for short to ground, replace Relaismodul	X271:6		E	1
933814	engine V8: engine start 50A short circuit to supply voltage	X271:5		E	1
933815	engine V8: engine start 50A open electric circuit starting procedure interrupted, shut down FGK and MVE check cable/plugs for breaks, replace Relaismodul	X271:5		E	1
933818	engine V8: engine start 50A excess temperature starting procedure interrupted, shut down FGK and MVE check cable/plugs for short to ground, replace Relaismodul	X271:5		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
934118	engine V8: control device ECU excess temperature error report allow machine to cool, check installation location, if necessary take further cooling measures	X271		E	1
934119	engine V8: control device ECU deviation engine-Stop regulator-reset (KI.15), Check cable/plugs EDC-actuator, EDC-actuator; ECU, replace injector pump	X271		E	1
934120	engine V8: control device ECU saving error	X271		E	1
934221	engine V8: RAM/FLASH memory invalid data record engine-Stop insert new EEPROM with appropriate data record and carry out paging or replace LH-ECU1, regulator-reset (KI.15)	X271		E	1
934320	engine V8: EEPROM memory saving error use of redundant memory (Flash-EPROM) insert new EEPROM and carry out paging or replace LH-ECU1, regulator-reset (KI.15)	X271		E	1
934321	engine V8: EEPROM memory invalid data record engine start not possible insert correct EEPROM with appropriate data record or replace LH-ECU1, regulator-reset (KI.15)	X271		E	1
936124	engine V8: charge air temperature pre-warning disruption limit 1 warning, engine-protection-info, output reduction reduce output, check air suction routing and engine	X273:12/15		E	1
936125	engine V8: charge air temperature pre-warning disruption limit 2 warning, engine-protection-info, output reduction reduce output, if necessary shut off engine, check air suction routing and engine	X273:12/15		E	1
936224	engine V8: coolant temperature pre-warning disruption limit 1 warning, engine-protection-info, output reduction reduce output, check coolant level and engine	X273:10/11		E	1
936225	engine V8: coolant temperature pre-warning disruption limit 2 warning, engine-protection-info, output reduction reduce output, if necessary shut off engine, check coolant level and engine	X273:10/11		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
936324	engine V8: coolant level pre-warning disruption limit 1 warning shut off engine, check coolant level and if necessary replenish, check for leaks	X274:11/12		E	1
936424	engine V8: oil pressure pre-warning disruption limit 1 warning shut off engine, check oil level and if necessary replenish, check for leaks	X273:1/2/3		E	1
936522	engine V8: air filter pressure pre-warning disruption limit 1 pre-warning replace air filter at next opportunity	X273:7/8/9		E	1
936525	engine V8: air filter pressure pre-warning disruption limit 2 warning replace air filter immediately	X273:7/8/9		E	1
936624	engine V8: v-belt break pre-warning disruption limit 1 warning replace V-belts, check generator and replace if necessary	X273:14		E	1
936724	engine V8: speed pre-warning disruption limit 1 warning, engine-protection-info, injector quantities 0, activation of engine brake shut off engine, regulator-reset (Kl.15)	X273:18/19/20/2 1		E	1
936824	engine V8: charge air pressure pre-warning disruption limit 1 signal ignored, substitute value will be used, error report check air suction routing	X273:4/5/6		E	1
936825	engine V8: charge air pressure pre-warning disruption limit 2 signal ignored, substitute value will be used, error report check air suction routing	X273:4/5/6		E	1
936924	engine V8: oil temperature pre-warning disruption limit 1 signal ignored, substitute value will be used, error report check oil level/oil circulation	X273:16/17		E	1
936925	engine V8: oil temperature pre-warning disruption limit 2 signal ignored, substitute value will be used, error report check oil level/oil circulation	X273:16/17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
938150	engine V8: v-belt-control service report interval 1 attained/exceeded report check and return	X27		E	1
938250	engine V8: change engine oil filter service report interval 1 attained/exceeded report check and return	X27		E	1
938350	engine V8: change engine oil service report interval 1 attained/exceeded report change oil and return	X27		E	1
938351	engine V8: change engine oil service report interval 2 attained/exceeded report change oil and return	X27		E	1
938352	engine V8: change engine oil service report interval 3 attained/exceeded report change oil and return	X27		E	1
938353	engine V8: change engine oil service report interval 4 attained/exceeded report change oil and return	X27		E	1
938354	engine V8: change engine oil service report interval 5 attained/exceeded report change oil and return	X27		E	1
938355	engine V8: change engine oil service report interval 6 attained/exceeded report change oil and return	X27		E	1
938356	engine V8: change engine oil service report interval 7 attained/exceeded report change oil and return	X27		E	1
938357	engine V8: change engine oil service report interval 8 attained/exceeded report change oil and return	X27		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
938358	engine V8: change engine oil service report interval 9 attained/exceeded report change oil and return	X27		E	1
938359	engine V8: change engine oil service report interval 10 attained/exceeded report change oil and return	X27		E	1
938650	engine V8: check battery service report interval 1 attained/exceeded report check and return	X27		E	1
938750	engine V8: change water filter service report interval 1 attained/exceeded report change filter and return	X27		E	1
938850	engine V8: check antifreeze service report interval 1 attained/exceeded report check and return	X27		E	1
938950	engine V8: fuel filter level 1 service report interval 1 attained/exceeded report change filter and return	X27		E	1
939050	engine V8: fuel filter level 2 service report interval 1 attained/exceeded report change filter and return	X27		E	1
939150	engine V8: valve clearance service report interval 1 attained/exceeded report check and return	X27		E	1
939250	engine V8: fuel injection valves service report interval 1 attained/exceeded report check and return	X27		E	1
939350	engine V8: coolant service report interval 1 attained/exceeded report check and return	X27		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
940106	Engine uppercarr. control device engine Data communication CAN faulty / interrupted emergency operation check cable/plugs for shorts	X705:1/4/7		E	1
940107	Engine uppercarr. control device engine Data communication CAN cancelled emergency operation check cable/plugs for UB- or shorts to ground	X705:1/4/7		E	1
940208	Engine uppercarr. CAN-participant ABV (ABS/ASR) Data transfer faulty/missing, max. cycle time exceeded limited function check cable/plugs/ABS-/ASR-electronics	X705:1/4/7		E	1
940308	Engine uppercarr. CAN-participant gear Data transfer faulty/missing, max. cycle time exceeded limited function check cable/plugs/gear electronics	X705:1/4/7		E	1
940408	Engine uppercarr. CAN-participant E/A-Modul Data transfer faulty/missing, max. cycle time exceeded emergency operation check cable/plugs/E/A-Modul(e)	X705:1/4/7		E	1
940709	Engine uppercarr. speed sensor 1 gradient damage switch-over to speed 2 or engine-stop with error code 0809 check cable/plugs/sensor, distance to flywheel	X703:19/20		E	1
940809	Engine uppercarr. speed sensor 2 gradient damage switch-over to speed 2 or engine-stop with error code 0709 check cable/plugs/sensor, distance to flywheel	X703:18/21		E	1
940910	Engine uppercarr. speed 1/2 inadmissible signal difference/plausability control defective switch-over to other speed sensor or engine-stop check cable/plugs/sensor, distance to flywheel	X703:18/19/20/2 1		E	1
941002	Engine uppercarr. accelerator 1 sensor defect high/short circ. to supply voltage switch-over to accelerator 2, speed limitation, torque limitation or 20-23 check cable/plugs for UB-shorts	X704:16/17		E	1
941003	Engine uppercarr. accelerator 1 sensor defect low/short circuit to ground switch-over to accelerator 2, speed limitation, torque limitation or 20-23 check cable/plugs for breaks or short to ground	X704:16/17		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
941004	Engine uppercarr. accelerator 1 level exceeded switch-over to accelerator 2, speed limitation, torque limitation or 20-23 check cable/plugs for UB-shorts, check pedal unit	X704:16/17		E	1
941005	Engine uppercarr. accelerator 1 below minimum level switch-over to accelerator 2, speed limitation, torque limitation or 20-23 check cable/plugs for break or short to ground, check pedal unit	X704:16/17		E	1
941102	Engine uppercarr. accelerator 2 sensor defect high/short circ. to supply voltage switch-over to accelerator 1, speed limitation, torque limitation or emergency operation at error code 16-19 check cable/plugs for UB-shorts	X704:14/15		E	1
941103	Engine uppercarr. accelerator 2 sensor defect low/short circuit to ground switch-over to accelerator 1, speed limitation, torque limitation or emergency operation at error code 16-19 check cable/plugs for breaks or short to ground	X704:14/15		E	1
941104	Engine uppercarr. accelerator 2 level exceeded switch-over to accelerator 1, speed limitation, torque limitation or emergency operation at error code 16-19 check cable/plugs for UB-shorts, check pedal unit	X704:14/15		E	1
941105	Engine uppercarr. accelerator 2 below minimum level switch-over to accelerator 1, speed limitation, torque limitation or emergency operation at error code 16-19 check cable/plugs for break or short to ground, check pedal unit	X704:14/15		E	1
941201	Engine uppercarr. accelerator 1/2 unit defect gas reduction or gas withdrawal (idle) test error code 16-23, check pedal unit	X704:14/15/16/17		E	1
941210	Engine uppercarr. accelerator 1/2 inadmissible signal difference/plausability control defective gas withdrawal (idle) check pedal unit, check condition of operation brake	X704:14/15/16/17		E	1
941611	Engine uppercarr. trigger signal box EDC excess current recognition engine-Stop check cable/plugs, replace LH-ECU1, check EDC-actuator, if necessary replace injector pump	X701:7/10		E	1
941701	Engine uppercarr. signal box feedback EDC unit defect engine-Stop check cable/plugs, replace LH-ECU1, check EDC-actuator, if necessary replace injector pump	X701:13/14/15		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
941812	Engine uppercarr. alternator D+ short circuit to ground warning check cable/plugs for short to ground	X703:14		E	1
941813	Engine uppercarr. alternator D+ open signal circuits signal ignored check cable/plugs for breaks	X703:14		E	1
941814	Engine uppercarr. alternator D+ short circuit to supply voltage signal ignored check cable/plugs for UB-shorts	X703:14		E	1
941916	Engine uppercarr. supply KL30 excess voltage generate error report Reset: automatic after error counter sequence or after regulator-reset check main circuit voltage, check battery	X702:1		E	1
941917	Engine uppercarr. supply KL30 voltage below required value generate error report; Reset: automatic after error counter sequence or regulator reset check main circuit voltage, check battery	X702:1		E	1
942012	Engine uppercarr. start engine KL50 short circuit to ground generate error report; Reset: automatic after error counter sequence or regulator reset check cable/plugs for short to ground	X704:13		E	1
942112	Engine uppercarr. DA, flame type heater plugs diagnosis short circuit to ground error report check cable/plugs for short to ground, replace Relaismodul	X701:9		E	1
942113	Engine uppercarr. DA, flame type heater plugs diagnosis open signal circuits shut off FGK and MVE check cable/plugs for breaks, replace Relaismodul	X701:9		E	1
942114	Engine uppercarr. DA, flame type heater plugs diagnosis short circuit to supply voltage error report check cable/plugs for UB-shorts, replace Relaismodul	X701:9		E	1
942602	Engine uppercarr. oil pressure sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X703:1/2/3		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
942603	Engine uppercarr. oil pressure sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X703:1/2/3		E	1
942702	Engine uppercarr. charge air pressure sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X703:4/5/6		E	1
942703	Engine uppercarr. charge air pressure sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X703:4/5/6		E	1
942802	Engine uppercarr. air filter sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X703:7/8/9		E	1
942803	Engine uppercarr. air filter sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X703:7/8/9		E	1
943102	Engine uppercarr. charge air temperature sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X703:12/15		E	1
943103	Engine uppercarr. charge air temperature sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X703:12/15		E	1
943202	Engine uppercarr. coolant temperature sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X703:10/11		E	1
943203	Engine uppercarr. coolant temperature sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X703:10/11		E	1
943313	Engine uppercarr. coolant level sensor open signal circuits signal ignored, substitute value used check cable/plugs for defects or breaks, replace sensor	X704:10/11		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
943402	Engine uppercarr. oil temperature sensor sensor defect high/short circ. to supply voltage signal ignored, substitute value used check cable/plugs for shorts to ground, replace sensor	X703:16/17		E	1
943403	Engine uppercarr. oil temperature sensor sensor defect low/short circuit to ground signal ignored, substitute value used check cable/plugs for UB-shorts, replace sensor	X703:16/17		E	1
943601	Engine uppercarr. trigger flame type heater plug(s) FGK unit defect shut off FGK and MVE	X701:4		E	1
943614	Engine uppercarr. trigger flame type heater plug(s) FGK short circuit to supply voltage	X701:4		E	1
943615	Engine uppercarr. trigger flame type heater plug(s) FGK open electric circuit error report check cable/plugs for breaks, replace Relaismodul	X701:4		E	1
943618	Engine uppercarr. trigger flame type heater plug(s) FGK excess temperature shut off FGK and MVE check cable/plugs for short to ground, replace Relaismodul	X701:4		E	1
943714	Engine uppercarr. solenoid valve additional flow for starting short circuit to supply voltage	X701:6		E	1
943715	Engine uppercarr. solenoid valve additional flow for starting open electric circuit FSA data defective, FGK activation removed, MVE reset: automatic after error counter sequence, after regulator reset	X701:6		E	1
943718	Engine uppercarr. solenoid valve additional flow for starting excess temperature shut off FGK and MVE check cable/plugs for short to ground, replace Relaismodul	X701:6		E	1
943814	Engine uppercarr. engine start 50A short circuit to supply voltage	X701:5		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
943815	Engine uppercarr. engine start 50A open electric circuit starting procedure interrupted, shut down FGK and MVE check cable/plugs for breaks, replace Relaismodul	X701:5		E	1
943818	Engine uppercarr. engine start 50A excess temperature starting procedure interrupted, shut down FGK and MVE check cable/plugs for short to ground, replace Relaismodul	X701:5		E	1
944118	Engine uppercarr. control device ECU excess temperature error report allow machine to cool, check installation location, if necessary take further cooling measures	X701		E	1
944119	Engine uppercarr. control device ECU deviation engine-Stop regulator-reset (Kl.15), Check cable/plugs EDC-actuator, EDC-actuator; ECU, replace injector pump	X701		E	1
944120	Engine uppercarr. control device ECU saving error	X701		E	1
944221	Engine uppercarr. RAM/FLASH memory invalid data record engine-Stop insert new EEPROM with appropriate data record and carry out paging or replace LH-ECU1, regulator-reset (Kl.15)	X701		E	1
944320	Engine uppercarr. EEPROM memory saving error use of redundant memory (Flash-EPROM) insert new EEPROM and carry out paging or replace LH-ECU1, regulator-reset (Kl.15)	X701		E	1
944321	Engine uppercarr. EEPROM memory invalid data record engine start not possible insert correct EEPROM with appropriate data record or replace LH-ECU1, regulator-reset (Kl.15)	X701		E	1
946124	Engine uppercarr. charge air temperature pre-warning disruption limit 1 warning, engine-protection-info, output reduction reduce output, check air suction routing and engine	X703:12/15		E	1
946125	Engine uppercarr. charge air temperature pre-warning disruption limit 2 warning, engine-protection-info, output reduction reduce output, if necessary shut off engine, check air suction routing and engine	X703:12/15		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
946224	Engine uppercarr. coolant temperature pre-warning disruption limit 1 warning, engine-protection-info, output reduction reduce output, check coolant level and engine	X703:10/11		E	1
946225	Engine uppercarr. coolant temperature pre-warning disruption limit 2 warning, engine-protection-info, output reduction reduce output, if necessary shut off engine, check coolant level and engine	X703:10/11		E	1
946324	Engine uppercarr. coolant level pre-warning disruption limit 1 warning shut off engine, check coolant level and if necessary replenish, check for leaks	X704:11/12		E	1
946424	Engine uppercarr. oil pressure pre-warning disruption limit 1 warning shut off engine, check oil level and if necessary replenish, check for leaks	X703:1/2/3		E	1
946522	Engine uppercarr. air filter pressure pre-warning disruption limit 1 pre-warning replace air filter at next opportunity	X703:7/8/9		E	1
946525	Engine uppercarr. air filter pressure pre-warning disruption limit 2 warning replace air filter immediately	X703:7/8/9		E	1
946624	Engine uppercarr. v-belt break pre-warning disruption limit 1 warning replace V-belts, check generator and replace if necessary	X703:14		E	1
946724	Engine uppercarr. speed pre-warning disruption limit 1 warning, engine-protection-info, injector quantities 0, activation of engine brake shut off engine, regulator-reset (KI.15)	X703:18/19/20/2 1		E	1
946824	Engine uppercarr. charge air pressure pre-warning disruption limit 1 signal ignored, substitute value will be used, error report check air suction routing	X703:4/5/6		E	1
946825	Engine uppercarr. charge air pressure pre-warning disruption limit 2 signal ignored, substitute value will be used, error report check air suction routing	X703:4/5/6		E	1

Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
946924	Engine uppercarr. oil temperature pre-warning disruption limit 1 signal ignored, substitute value will be used, error report check oil level/oil circulation	X703:16/17		E	1
946925	Engine uppercarr. oil temperature pre-warning disruption limit 2 signal ignored, substitute value will be used, error report check oil level/oil circulation	X703:16/17		E	1
948150	Engine uppercarr. v-belt-control service report interval 1 attained/exceeded report check and return	X70		E	1
948250	Engine uppercarr. change engine oil filter service report interval 1 attained/exceeded report check and return	X70		E	1
948350	Engine uppercarr. change engine oil service report interval 1 attained/exceeded report change oil and return	X70		E	1
948351	Engine uppercarr. change engine oil service report interval 2 attained/exceeded report change oil and return	X70		E	1
948352	Engine uppercarr. change engine oil service report interval 3 attained/exceeded report change oil and return	X70		E	1
948353	Engine uppercarr. change engine oil service report interval 4 attained/exceeded report change oil and return	X70		E	1
948354	Engine uppercarr. change engine oil service report interval 5 attained/exceeded report change oil and return	X70		E	1
948355	Engine uppercarr. change engine oil service report interval 6 attained/exceeded report change oil and return	X70		E	1



Fehler-Nr.	Fehlertext / Reaktion / Behebung	Stecker	Blatt	K	W
948356	Engine uppercarr. change engine oil service report interval 7 attained/exceeded report change oil and return	X70		E	1
948357	Engine uppercarr. change engine oil service report interval 8 attained/exceeded report change oil and return	X70		E	1
948358	Engine uppercarr. change engine oil service report interval 9 attained/exceeded report change oil and return	X70		E	1
948359	Engine uppercarr. change engine oil service report interval 10 attained/exceeded report change oil and return	X70		E	1
948650	Engine uppercarr. check battery service report interval 1 attained/exceeded report check and return	X70		E	1
948750	Engine uppercarr. change water filter service report interval 1 attained/exceeded report change filter and return	X70		E	1
948850	Engine uppercarr. check antifreeze service report interval 1 attained/exceeded report check and return	X70		E	1
948950	Engine uppercarr. fuel filter level 1 service report interval 1 attained/exceeded report change filter and return	X70		E	1
949050	Engine uppercarr. fuel filter level 2 service report interval 1 attained/exceeded report change filter and return	X70		E	1
949150	Engine uppercarr. valve clearance service report interval 1 attained/exceeded report check and return	X70		E	1

