

Error list	
System:	SMX100
Document:	Error list SMX100
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1 General

Error list regarding the assembly group series SMX100.

1.1 Target

In addition to the error/alarm states, errors of the peripheral HW and configuration errors have been included.

This error list is valid for firmware versions up to:

Firmware Version 04-00-00-11

1.2 Bus Status

When using SMX Modular slave devices bus errors may be shown on the master device. The following bus error messages do exist:

Display	Description	Impact on the system	Reset condition
b0003	Initialisation/Synchronisation with slave devices	All outputs are switched off!	Resettable by switching off/on the SMX(POR).
b0008	Transmission of configuration data to slave devices.	All outputs are switched off!	Not necessary
b0010	Bus in „RUN“	All outputs active based on application	Not necessary
b0012	Bus Error	All outputs are switched off!	Resettable by switching off/on the SMX (POR).




In case of an error the bus state may remain in „b0003“ or „b0012“. The following situations may lead to these states:

Bus Status	b0003
Message	Communication establishment with slave devices
Cause	Slave does not respond
Remedy	<ul style="list-style-type: none"> • Check slave addresses • Check slave status LED (must be flashing green) • Check back pane bus connection between master and slaves

Bus Status	b0012
Message	Bus error
Cause	Bus error cause by faulty slave device
Remedy	<ul style="list-style-type: none"> • Check if configured slave device (e.g. SMX122) matches the connected one (e.g. SMX122A) • Check slave addresses (duplicates) • Check slave status LED (must be flashing green)

1.3 SMX error types

The SMX distinguishes two types of errors in accordance with the following allocation:

Error type	Description	Impact on the system	Reset condition
Fatal Error 	Fatal exception caused by an internal program or hardware failure SMX100. Safe operation is no longer possible. The last active process is the operation of the 7 segment display by system A. System B is in the "Stop" mode.	All outputs will be switched off!	Resettable by switching off/on the SMX100 (POR).
Alarm 	Functional error, caused by an external process. Both systems keep on running in a cyclical manner and fulfill all requirements of the communication interfaces. The scanning of the external process will also be maintained.	All outputs will be switched off!	Reset by parametrisable input
ECS Alarm 	When using the ECS function on the programming interface, the sensor alarm messages are marked with 'E' instead of 'A'.	ECS-function block result is „0“	Reset by parametrisable input

Identification of the errors in System A and System B:

- System A: odd-numbered
- System B: even-numbered

1.4 Display of the error types

There are two ways in which the error number is displayed

- SMX100 without expansion assembly groups

F, A or E Error number

- SMX100 with expansion assembly groups

F, A or E 1) Error number

Note 1) 0: Basic assembly group

- 1: expansion assembly group with logical address 1
- 2: expansion assembly group with logical address 2
- 3: expansion assembly group with logical address 3
- 4: expansion assembly group with logical address 4
- 5: expansion assembly group with logical address 5
- 6: expansion assembly group with logical address 6
- 7: expansion assembly group with logical address 7
- 8: expansion assembly group with logical address 8

- SMX100 with decentral slave devices

If no communication can be established to one or more of the decentral slave devices the following sequence is shown

b - d 1) 2)

Bus status

- Note 1) 1: expansion assembly group with logical address 1
 2: expansion assembly group with logical address 2
 3: expansion assembly group with logical address 3
 4: expansion assembly group with logical address 4
 5: expansion assembly group with logical address 5
 6: expansion assembly group with logical address 6
 7: expansion assembly group with logical address 7
 8: expansion assembly group with logical address 8

Note 2) Error number (see list below)

Error codes decentral slaves


No.	Message	Cause
00	No Link	Device not connected
03	Invalid device type	The device type of the configured and the connected device do not match
04	Invalid device type	The device type of the configured and the connected device do not match
05	Invalid serial number	Device has an invalid serial number
06	Invalid serial number and device type	Device has an invalid serial number and the wrong device typ

1.5 Alarm Muting

Several functions exist to muted alarm messages:

- ICS: Muting of digital input related alarms
- ACS: Muting of analog input related alarms
- ECS: Muting of encoder input alarms

If an error can be muted using one of the latter functions it is marked inside the error description.

	<p>Suppressing an alarm using one of the muting functions can have a negative impact on the safety of the application and can only be done after evaluating the safety regulations!</p> <p>Solving the cause of the error must be preferred to muting the alarm.</p>
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2 Alarm list SMX100

Alarm Code	A 1212
Alarm message	SD card with new application program was found
Cause	A new application program on the inserted SD card is ready to be loaded. The system is waiting for user confirmation
Remedy	<ul style="list-style-type: none"> • Double-Press the reset button to store the application program on the device. • Remove the SD card if you do not want to change the application

Alarm Code	A 2115
Alarm message	Timeout system interface telegram
Cause	Send telegram not sent within the timeout
Remedy	Check RS485 hardware driver

Alarm Code	A 2301
Alarm message	Communication Error KI Module
Cause	Incorrect data transmission External EMC
Remedy	<ul style="list-style-type: none"> • Check EMC regulations • Power Cycle • Replace device

Alarm Code	A 2303
Alarm message	Timeout Communication KI Module
Cause	Incorrect data transmission External EMC
Remedy	<ul style="list-style-type: none"> • Check EMC regulations • Power Cycle • Replace device

Alarm Code	A 2305
Alarm message	Invalid data length in SPI transmission to KI Module
Cause	Incorrect data transmission External EMC
Remedy	<ul style="list-style-type: none"> • Check EMC regulations • Power Cycle • Replace device

Alarm Code	A 2307
Alarm message	Invalid identifier in SPI transmission to KI Module
Cause	Incorrect data transmission External EMC
Remedy	<ul style="list-style-type: none"> • Check EMC regulations • Power Cycle • Replace device

Alarm code	A 3031 / A 3032
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.1
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3033 / A 3034
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.1
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3037 / A 3038
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.2
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3039 / A 3040
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.2
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3043 / A 3044
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.3
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3045 / A 3046
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.3
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3049 / A 3050
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.4
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3051 / A 3052
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.4
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3055 / A 3056
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.5
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3057 / A 3058
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.5
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3061 / A 3062
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.6
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3063 / A 3064
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.6
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3067 / A 3068
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.7
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3069 / A 3070
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.7
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3073 / A 3074
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.8
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3075 / A 3076
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.8
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3079 / A 3080
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.9
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3081 / A 3082
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.9
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3085 / A 3086
Alarm message	Pulse1 plausibility fault on expansion inlet EAEx.10
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3087 / A 3088
Alarm message	Pulse2 plausibility fault on expansion inlet EAEx.10
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3101 / A 3102
Alarm message	Pulse1 plausibility fault on input DI x.1
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3103 / A 3104
Alarm message	Pulse1 plausibility fault on input DI x.2
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3105 / A 3106
Alarm message	Pulse1 plausibility fault on input DI x.3
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3107 / A 3108
Alarm message	Pulse1 plausibility fault on input DI x.4
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3109 / A 3110
Alarm message	Pulse1 plausibility fault on input DI x.5
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3111 / A 3112
Alarm message	Pulse1 plausibility fault on input DI x.6
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3113 / A 3114
Alarm message	Pulse1 plausibility fault on input DI x.7
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3115 / A 3116
Alarm message	Pulse1 plausibility fault on input DI x.8
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3117 / A 3118
Alarm message	Pulse2 plausibility fault on input DI x.1
Cause	No Pulse2 voltage applied to this input
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3119 / A 3120
Alarm message	Pulse2 plausibility fault on input DI x.2
Cause	No Pulse2 voltage applied to this input
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3121 / A 3122
Alarm message	Pulse2 plausibility fault on input DI x.3
Cause	No Pulse2 voltage applied to this input
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3123 / A 3124
Alarm message	Pulse2 plausibility fault on input DI x.4
Cause	No Pulse2 voltage applied to this input
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3125 / A 3126
Alarm message	Pulse2 plausibility fault on input DI x.5
Cause	No Pulse2 voltage applied to this input
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3127 / A 3128
Alarm message	Pulse2 plausibility fault on input DI x.6
Cause	No Pulse2 voltage applied to this input
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3129 / A 3130
Alarm message	Pulse2 plausibility fault on input DI x.7
Cause	No Pulse2 voltage applied to this input
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3131 / A 3132
Alarm message	Pulse2 plausibility fault on input DI x.8
Cause	No Pulse2 voltage applied to this input
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3133 / A 3134
Alarm message	Pulse1 plausibility fault on input DI x.9
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3135 / A 3136
Alarm message	Pulse1 plausibility fault on input DI x.10
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3137 / A 3138
Alarm message	Pulse1 plausibility fault on input DI x.11
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3139 / A 3140
Alarm message	Pulse1 plausibility fault on input DI x.12
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3141 / A 3142
Alarm message	Pulse1 plausibility fault on input DI x.13
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3143 / A 3144
Alarm message	Pulse1 plausibility fault on input DI x.14
Cause	Configured Pulse1 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3147 / A 3148
Alarm message	Pulse2 plausibility fault on input DI x.9
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input DI9 acc. to planning and circuit diagram • Check wiring

Alarm code	A 3149 / A 3150
Alarm message	Pulse2 plausibility fault on input DI x.10
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input DI10 acc. to planning and circuit diagram • Check wiring

Alarm code	A 3151 / A 3152
Alarm message	Pulse2 plausibility fault on input DI x.11
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input DI11 acc. to planning and circuit diagram • Check wiring

Alarm code	A 3153 / A 3154
Alarm message	Pulse2 plausibility fault on input DI x.12
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3155 / A 3156
Alarm message	Pulse2 plausibility fault on input DI x.13
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3157 / A 3158
Alarm message	Pulse2 plausibility fault on input DI x.14
Cause	Configured Pulse2 voltage not applied to this input.
Remedy	<ul style="list-style-type: none"> • Check the configuration of the digital input acc. to planning and circuit diagram • Check wiring

Alarm code	A 3191 / A 3192
Alarm message	Short circuit error digital inputs DI x.1 ... DI x.12
Cause	Short circuit between the digital inputs within the assembly group
Remedy	<ul style="list-style-type: none"> • Power Reset • Check degree of pollution of device • Check external wiring • Replace device

Alarm code	A 3197 / A 3198
Alarm message	Incorrect OSSD input check
Cause	OSSD test incorrect
Remedy	<ul style="list-style-type: none"> • Check 24V input voltage of all OSSD inputs • Power Reset

Alarm Code	A 3209 / A 3210
Alarm message	Sensor supply voltage X31 incorrect.
Cause	<ul style="list-style-type: none"> • Sensor supply voltage does not correspond to the configured threshold
Remedy	<ul style="list-style-type: none"> • Check configuration! • Check sensor supply voltage • Switch off/on device

Alarm Code	A 3213 / A 3214
Alarm message	Sensor supply voltage X32 incorrect.
Cause	<ul style="list-style-type: none"> • Sensor supply voltage does not correspond to the configured threshold
Remedy	<ul style="list-style-type: none"> • Check configuration! • Check sensor supply voltage • Switch off/on device

Alarm code	A 3225 / A 3226
Fault message	Deviation Ain1 to Aln2 too big
Cause	<ul style="list-style-type: none"> • Different voltages on both inputs • configured threshold too low
Remedy	<ul style="list-style-type: none"> • Check voltages on Ain1! • Check configuration of threshold/input filter • Switch device off/on.

Alarm code	A 3227 / A 3228
Fault message	Deviation Ain3 to Aln4 too big
Cause	<ul style="list-style-type: none"> • Different voltages on both inputs • configured threshold too low
Remedy	<ul style="list-style-type: none"> • Check voltages on Ain1! • Check configuration of threshold/input filter • Switch device off/on.

Alarm code	A 3229 / A 3230
Fault message	Plausibility test for encoder voltage faulty
Cause	<ul style="list-style-type: none"> • Encoder voltage value
Remedy	<ul style="list-style-type: none"> • Check sensor voltage supply • Check wiring of sensor voltage supply • Power Cycle

Alarm code	A 3231 / A 3232
Fault message	Plausibility test for analog inputs faulty
Cause	<ul style="list-style-type: none"> • Fault in analog input signal
Remedy	<ul style="list-style-type: none"> • Check connection of analog inputs • Analog input voltage out of range

Alarm code	A 3233 / A 3234
Fault message	Open-circuit monitoring AIN1 has triggered
Cause	<ul style="list-style-type: none"> • Open-circuit monitoring activated (< 1000mV)
Remedy	<ul style="list-style-type: none"> • Check configuration of activation/sensor • Check sensor connection

Alarm code	A 3235 / A 3236
Fault message	Open-circuit monitoring AIN2 has triggered
Cause	<ul style="list-style-type: none"> • Open-circuit monitoring activated (< 1000mV)
Remedy	<ul style="list-style-type: none"> • Check configuration of activation/sensor • Check sensor connection

Alarm code	A 3237 / A 3238
Fault message	Analog adder overflow
Cause	Analog voltage ranges vary
Remedy	<ul style="list-style-type: none"> • Check the configuration of the analog voltage values • Check analog sensor connection

Alarm Code	A 3301 / A 3302
Alarm message	Plausibility error speed recording axis 1
Cause	The difference between the two speed sensors is higher than the configured switch off threshold for speed
Remedy	<ul style="list-style-type: none"> • Check the theory of the distance by comparing the data in the configuration of the sensors. • Check the signals of the speed sensor • Check the correct wiring on the 9-pin encoder plug • Analyse the speed signals using the scope function • Check the parameterization of the axis (Resolution, Direction, Cutoff Threshold Speed, Filter) • Check the track for slippage or speed deviations

Alarm code	A 3303 / A 3304
Alarm message	Plausibility fault position sensing axis 1
Cause	The difference between the two position signals is higher than the configured switch off threshold for increments
Remedy	<ul style="list-style-type: none"> • Check the theory of the distance by comparing the data in the configuration of the sensors. • Check the signals of the position sensor • Check the correct wiring on the 9-pin encoder plug • Analyse the position signals using the scope function • Check the parameterization of the axis (Resolution, Direction, Cutoff Threshold Speed, Filter)

Alarm code	A 3307 / A 3308
Alarm message	Plausibility fault position range axis 1
Cause	The current position is outside of the configured measuring length
Remedy	<ul style="list-style-type: none"> • Check the theory of the distance by comparing the data configured in the sensor adjustment • Check position signal, if applicable, correct offset • Manually drive to the preset position and execute preset

Alarm code	A 3309 / A 3310
Alarm message	Plausibility fault because of faulty speed axis 1
Cause	<ul style="list-style-type: none"> • The current speed is outside of the configured maximal speed • The drive is moving above the allowed maximum speed
Remedy	<ul style="list-style-type: none"> • Check configuration. • Analyse the speed course via SCOPE • Check the driveway for speed deviations • Check absolute encoders for position discontinuity if applicable

Alarm code	A 3313 / A 3314
Fault message	SSI sensor fault
Cause	<ul style="list-style-type: none"> • Encoder step change SSI-value within a cycle too big
Remedy	<ul style="list-style-type: none"> • Check encoder wiring • Check encoder configuration

Alarm code	A 3317 / A 3318
Fault message	Plausibility error of the signals of the incremental encoder (single and quad-counter comparison failed)
Cause	<ul style="list-style-type: none"> • Signals on track A do not correspond to track B • Damaged RS485 encoder interface • Encoder operates out of encoder interface specification
Remedy	<ul style="list-style-type: none"> • Check sensor wiring • Check sensor configuration • Check the level of the encoder signals • Check the maximum counter frequency of the encoder

Alarm code	A 3321 / A 3322
Alarm message	Plausibility error speed recording axis 2
Cause	The difference between the two speed sensors is higher than the configured switch off threshold for speed
Remedy	<ul style="list-style-type: none"> • Check the theory of the distance by comparing the data in the configuration of the sensors. • Check the signals of the speed sensor • Check the correct wiring on the 9-pin encoder plug • Analyse the speed signals using the scope function • Check the parameterization of the axis (Resolution, Direction, Cutoff Threshold Speed, Filter) • Check the track for slippage or speed deviations

Alarm code	A 3323 / A 3324
Alarm message	Plausibility error position recording axis 2
Cause	The difference between the two position signals is higher than the configured switch off threshold for increments
Remedy	<ul style="list-style-type: none"> • Check the theory of the distance by comparing the data in the configuration of the sensors. • Check the signals of the position sensor • Check the correct wiring on the 9-pin encoder plug • Analyse the position signals using the scope function • Check the parameterization of the axis (Resolution, Direction, Cutoff Threshold Speed, Filter)

Alarm code	A 3327 / A 3328
Alarm message	Plausibility fault position range axis 2
Cause	The current position is outside of the configured measuring length
Remedy	<ul style="list-style-type: none"> • Check the theory of the distance by comparing the data configured in the sensor adjustment • Check position signal, if applicable, correct offset (absolute encoder) • Manually drive to the preset position and execute preset

Alarm code	A 3329 / A 3330
Alarm message	Plausibility fault because of faulty speed axis 2
Cause	<ul style="list-style-type: none"> • The current speed is outside of the configured maximal speed • The drive is moving above the allowed maximum speed
Remedy	<ul style="list-style-type: none"> • Check configuration. • Analyse the speed course via SCOPE • Check the driveway for speed deviations • Check absolute encoders for position discontinuity if applicable

Alarm code	A 3333 / A 3334
Alarm message	Plausibility fault of SinCos encoder
Cause	Wrong sensor type connected
Remedy	<ul style="list-style-type: none"> • Check configuration • Check sensor connector • Record and check sin/cos signals

Alarm code	A 3337 / A3338
Fault message	Incremental encoder axis 2 faulty
Cause	<ul style="list-style-type: none"> • Track A does not correspond to track B
Remedy	<ul style="list-style-type: none"> • Check sensor wiring • Check sensor configuration • Check and record encoder signals

Alarm code	A 3407 / A 3408
Alarm message	Difference level RS485 driver 1 fault (X31) A3407: TTL track B or SSI CLK A3408: TTL track A or SSI DATA
Cause	<ul style="list-style-type: none"> • No encoder connection • Wrong encoder type connected
Remedy	<ul style="list-style-type: none"> • Control the encoder connection • Check the encoder wiring

Alarm code	A 3409 / A 3410
Alarm message	Difference level RS485 driver fault (X32). A3409: TTL Signal B or SSI CLK A3410: TTL Signal A or SSI DATA
Cause	<ul style="list-style-type: none"> • No encoder connection • Wrong encoder type connected
Remedy	<ul style="list-style-type: none"> • Control the encoder connection • Check the encoder wiring

Alarm code	A 3411 / A 3412
Fault message	Fault Sine/Cosine plausibility X31
Cause	<ul style="list-style-type: none"> • Plausibility monitoring of detached line faulty
Remedy	<ul style="list-style-type: none"> • Check sensor wiring • Sinus to Cosinus must be linear • Attenuation on Sin/Cos lines too big • Interference on Sin/Cos lines

Alarm code	A 3413 / A 3414
Fault message	Fault Sine/Cosine plausibility X32
Cause	<ul style="list-style-type: none"> • Plausibility monitoring of detached line faulty
Remedy	<ul style="list-style-type: none"> • Check sensor wiring • Sinus to Cosinus must be linear • Attenuation on Sin/Cos lines too big • Interference on Sin/Cos lines

Alarm code	A 3421 / A 3422
Fault message	Wrong SSI Format
Cause	Unexpected or wrong SSI Frame Format
Remedy	<ul style="list-style-type: none"> • Check sensor configuration and settings • Check SSI master configuration • Check encoder connector • Check encoder wiring

Alarm code	A 3451 / A 3452
Alarm message	Faulty resolver frequency
Cause	<ul style="list-style-type: none"> • Resolver frequency is outside of admissible range. • Error of excitation frequency of resolver.
Remedy	<ul style="list-style-type: none"> • Check resolver frequency if it is in the admissible range. • Check encoder wiring • Power reset

Alarm code	A 3453 / A3454
Fault message	Mean value of the resolver reference signal is outside the permissible range.
Cause	<ul style="list-style-type: none"> • Mean value of reference signal of resolver is outside of the admissible range.
Remedy	<ul style="list-style-type: none"> • Check the connected resolver • Record and analyse the resolver signals • Check the voltage level of the resolver signals (Min, Max, Variance)

Alarm Code	A 3455 / A 3456
Fehler Meldung	Generic PIC error
Cause	<ul style="list-style-type: none"> • HW error on the extension board • PIC controller reported generic error
Remedy	<ul style="list-style-type: none"> • Check the encoder wiring on X33/X34 • Check the settings for encoder X33/X34 • Power Reset • Replace Device

Alarm code	A 3457 / A3458
Fault message	Encoder reference voltage on extension board X33/X34 is incorrect (U_REF monitoring)
Cause	<ul style="list-style-type: none"> • Wrong encoder wiring • HW error on extension board
Remedy	<ul style="list-style-type: none"> • Check the encoder wiring on X33/X34 • Check the settings for encoder X33/X34 • Power Reset • Replace Device

Alarm code	A 3459 / A3460
Fault message	The amplitude of the Sinus/Cosinus signals is out of range
Cause	<ul style="list-style-type: none"> • Incorrect configuration of sensor • Incorrect connection of encoder • Wrong encoder signals • Interference on encoder signals
Remedy	<ul style="list-style-type: none"> • Check sensor configuration • Check connections of sensors • Record encoder signals • Check EMC guidelines • Power Reset

Alarm code	A 3461 / A3462
Fault message	The PIC reports a general status fault, e.g. when setting up a connection or because a timeout occurred during processing.
Cause	<ul style="list-style-type: none"> • Wrong encoder signals • Defect RS485 encoder driver
Remedy	<ul style="list-style-type: none"> • Power cycle of device • Check encoder signals on X33/X34 • Check encoder wiring on X33/X34 • Replace device

Alarm code	A 3463 / A3464
Fault message	Plausibility check between the analogue sine signal and the TTL levels on the Schmitt trigger output do not correspond.
Cause	<ul style="list-style-type: none"> • Wrong encoder signals • Defect RS485 encoder driver
Remedy	<ul style="list-style-type: none"> • Check encoder signals on X33/X34 • Check encoder wiring on X33/X34 • Power cycle of device • Record and analyse the encoder signals • Replace device

Alarm code	A 3465 / A3466
Fault message	The quotient of arithmetic mean value / quadratic mean value is outside of the admissible range.
Cause	<ul style="list-style-type: none"> • Incorrect signals from sensor
Remedy	<ul style="list-style-type: none"> • Check encoder signals on X33/X34 • Check encoder wiring on X33/X34 • Record and analyse the encoder signals

Alarm code	A 3467 / A3468
Fault message	Connection establishment between CPU and PIC has failed.
Cause	<ul style="list-style-type: none"> • Incorrect Encoder signals • Hardware defect on X33/X34
Remedy	<ul style="list-style-type: none"> • Check extension board • Check encoder input level on X33/X34 • Power Cycle • Replace device

Alarm code	A 3469 / A3470
Fault message	Resolver_Quadrant
Cause	<ul style="list-style-type: none"> • Incorrect sensor signals from encoder
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signals • Power Cycle

Alarm code	A 3471 / A3472
Fault message	Resolver_UENC
Cause	<ul style="list-style-type: none"> • Encoder supply voltage is not connected • Wrong encoder supply voltage configured
Remedy	<ul style="list-style-type: none"> • Check encoder supply voltage on X17/X19 • Check configuration for encoder supply voltage monitoring on X33/X34 • Check the encoder signals • Power Cycle

Alarm code	A 3473 / A3474
Fault message	TTL/HTL signal incorrect
Cause	<ul style="list-style-type: none"> • Incorrect sensor signal from encoder
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signals • Power Cycle

Alarm code	A 3475 / A3476
Fault message	Resolver_TRACE Error
Cause	<ul style="list-style-type: none"> • Counter signals of encoder are incorrect
Remedy	<ul style="list-style-type: none"> • Check the encoder connection X33/X34 • Check the encoder signals • Check extension board • Power Cycle

Alarm Code	A 3477 / A3478
Fault message	SSI clock error
Cause	<ul style="list-style-type: none"> • Plausibility check SSI Clock (Clock missing) • Wrong clock signals on SSI Listener • SSI mono flop time out of range
Remedy	<ul style="list-style-type: none"> • Clock Signal Check • Check cables • Check the configuration of the SSI Master • Record and check the SSI Signals

Alarm Code	A 3501 / A 3502
Fehler Meldung	PXV CRC32 Berechnung fehlerhaft
Ursache	<ul style="list-style-type: none"> • Fehlerhafte Übertragung von Sensordaten zur SMX • EMV Einflüsse auf Übertragung
Fehlerbeseitigung	<ul style="list-style-type: none"> • Verkabelung Sensorplatine überprüfen • Verkabelung Sensor überprüfen • Abschirmung vor EMV Einflüssen prüfen

Alarm Code	A 3503 / A 3504
Fehler Meldung	PXV Nullposition gelesen
Ursache	<ul style="list-style-type: none"> • Position Lesekopf zu DataMatrix-Codeband ungültig • DataMatrix-Codeband verschmutzt • Fehlendes / fehlerhaftes DataMatrix-Codeband • Abstand zwischen zwei DataMatrix-Codebändern zu groß • Lesefenster PXV blockiert • Fremdlicht stört Lesevorgang
Fehlerbeseitigung	<ul style="list-style-type: none"> • Sensorkopf neu ausrichten • DataMatrix-Codeband reinigen/erneuern • Abstand der DataMatrix-Codebänder verringern • Optik reinigen • Strecke auf blockierte/fehlende Codes kontrollieren • Sensor vor Fremdlicht schützen

Alarm Code	A 3505 / A 3506
Fehler Meldung	PXV Checksumme fehlerhaft
Ursache	<ul style="list-style-type: none"> • Fehlerhafte Übertragung der Sensordaten • EMV Einflüsse auf Übertragung
Fehlerbeseitigung	<ul style="list-style-type: none"> • Verkabelung Sensorplatine überprüfen • Verkabelung Sensor überprüfen • Abschirmung vor EMV Einflüssen prüfen

Alarm Code	A 3507 / A 3508
Fehler Meldung	PXV Erhaltene Codefarbe entspricht nicht der Erwartungshaltung
Ursache	<ul style="list-style-type: none"> • Fehlerhafter Sensor liefert falsche Beleuchtung / Daten • Fehlerhafte Übertragung von Sensordaten zur SMX • EMV Einflüsse auf Übertragung
Fehlerbeseitigung	<ul style="list-style-type: none"> • Sensor auf korrekte Funktionalität prüfen • Verkabelung Sensorplatine überprüfen • Verkabelung Sensor überprüfen • Positionierung Lesekopf überprüfen • DataMatrix-Codeband überprüfen • Abschirmung vor EMV Einflüssen prüfen

Alarm code	A 3551 / A 3552
Fault message	SSI_ECE STATUS 1. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 1st status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Replace the SSI-encoder

Alarm code	A 3553 / A 3554
Fault message	SSI_ECE STATUS 1. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 2nd status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3555 / A 3556
Fault message	SSI_ECE STATUS 1. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 3rd status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3557 / A 3558
Fault message	SSI_ECE STATUS 1. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 4th status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3559 / A 3560
Fault message	SSI_ECE STATUS 1. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 5th status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3561 / A 3562
Fault message	SSI_ECE STATUS 2. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 1st status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3563 / A 3564
Fault message	SSI_ECE STATUS 2. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 2nd status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3565 / A 3566
Fault message	SSI_ECE STATUS 2. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 3rd status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3567 / A 3568
Fault message	SSI_ECE STATUS 2. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 4th status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3569 / A 3570
Fault message	SSI_ECE STATUS 2. axis SSI Ext Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 5th status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3571 / A 3572
Fault message	SSI STATUS 1. axis SSI Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 1st status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3573 / A 3574
Fault message	SSI STATUS 1. axis SSI Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 2nd status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3575 / A 3576
Fault message	SSI STATUS 1. axis SSI Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 3rd status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3577 / A 3578
Fault message	SSI STATUS 1. axis SSI Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 4th status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm code	A 3579 / A 3580
Fault message	SSI STATUS 1. axis SSI Encoder
Cause	<ul style="list-style-type: none"> • Evaluation of the 5th status bit is faulty
Remedy	<ul style="list-style-type: none"> • Check the encoder connection • Check the encoder signal • Check the meaning of the error bit in the encoder manual • Replace the SSI-encoder

Alarm Code	A 3627 / A 3628
Fault message	Error static test HighSide output 1 relay board
Cause	<ul style="list-style-type: none"> • Incorrect wiring (short-circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring (short circuit) • Check the hardware

Alarm Code	A 3629 / A 3630
Fault message	Error static test HighSide output 2 relay board
Cause	<ul style="list-style-type: none"> • Incorrect wiring (short-circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring (short circuit) • Check the hardware

Alarm Code	A 3631 / A 3632
Fault message	Error static test HighSide output 3 relay board
Cause	<ul style="list-style-type: none"> • Incorrect wiring (short-circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring (short circuit) • Check the hardware

Alarm Code	A 3633 / A 3634
Fault message	Error static test HighSide output 4 relay board
Cause	<ul style="list-style-type: none"> • Incorrect wiring (short-circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring (short circuit) • Check the hardware

Alarm Code	A 3635 / A 3636
Fault message	Fault static test Main Switch 2 of HighSide outputs 1 and 2
Cause	<ul style="list-style-type: none"> • Incorrect wiring (short-circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring (short circuit) • Check the hardware

Alarm Code	A 3637 / A 3638
Fault message	Fault static test Main Switch 2 of HighSide outputs 3 and 4
Cause	<ul style="list-style-type: none"> • Incorrect wiring (short-circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring (short circuit) • Check the hardware

Alarm Code	A 3801 / A3802
Fault message	Faulty switching of output EAAx.1
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3803 / A3804
Fault message	Faulty switching of output EAAx.2
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3805 / A3806
Fault message	Faulty switching of output EAAx.3
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3807 / A3808
Fault message	Faulty switching of output EAAx.4
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3809 / A3810
Fault message	Faulty switching of output EAAx.5
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3811 / A3812
Fault message	Faulty switching of output EAAx.6
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3813 / A3814
Fault message	Faulty switching of output EAAx.7
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3815 / A3816
Fault message	Faulty switching of output EAAx.8
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3817 / A3818
Fault message	Faulty switching of output EAAx.9
<ul style="list-style-type: none"> • Cause 	Short circuit of output with „24V“ or „0V“
<ul style="list-style-type: none"> • Remedy 	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3819 / A3820
Fault message	Faulty switching of output EAAx.10
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3901 / A3902
Fault message	Faulty switching of output EAA0.11
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3903 / A3904
Fault message	Faulty switching of output EAA0.12
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3905 / A3906
Fault message	Faulty switching of output EAA0.13
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3907 / A3908
Fault message	Faulty switching of output EAA0.14
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3909 / A3910
Fault message	Faulty switching of output EAA0.15
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3911 / A3912
Fault message	Faulty switching of output EAA0.16
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3913 / A3914
Fault message	Faulty switching of output EAA0.17
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3915 / A3916
Fault message	Faulty switching of output EAA0.18
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3917 / A3918
Fault message	Faulty switching of output EAA0.19
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3919 / A3920
Fault message	Faulty switching of output EAAx.20
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3921 / A3922
Fault message	Faulty switching of output EAAx.21
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3923 / A3924
Fault message	Faulty switching of output EAAx.22
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3925 / A3926
Fault message	Faulty switching of output EAAx.23
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3927 / A3928
Fault message	Faulty switching of output EAAx.24
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3929 / A3930
Fault message	Faulty switching of output EAAx.25
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3931 / A3932
Fault message	Faulty switching of output EAAx.26
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3933 / A3934
Fault message	Faulty switching of output EAAx.27
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3935 / A3936
Fault message	Faulty switching of output EAAx.28
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3937 / A3938
Fault message	Faulty switching of output EAAx.29
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3939 / A3940
Fault message	Faulty switching of output EAAx.30
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3941 / A3942
Fault message	Faulty switching of output EAA0.31
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3943 / A3944
Fault message	Faulty switching of output EAA0.32
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3945 / A3946
Fault message	Faulty switching of output EAA0.33
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3947 / A3948
Fault message	Faulty switching of output EAA0.34
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3949 / A3950
Fault message	Faulty switching of output EAA0.35
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3951 / A3952
Fault message	Faulty switching of output EAA0.36
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3953 / A3954
Fault message	Faulty switching of output EAA0.37
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3955 / A3956
Fault message	Faulty switching of output EAA0.38
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3957 / A3958
Fault message	Faulty switching of output EAA0.39
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 3959 / A3960
Fault message	Faulty switching of output EAAx.40
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check the wiring of the outputs on extension device • Power cycle

Alarm code	A 4001 / A 4002
Alarm message	Anticlockwise and clockwise rotation SDI1 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI1 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4003 / A 4004
Alarm message	Anticlockwise and clockwise rotation SDI2 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI2 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4005 / A 4006
Alarm message	Anticlockwise and clockwise rotation SDI3 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI3 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4007 / A 4008
Alarm message	Anticlockwise and clockwise rotation SDI4 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI4 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4009 / A 4010
Alarm message	Anticlockwise and clockwise rotation SDI5 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI5 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4011 / A 4012
Alarm message	Anticlockwise and clockwise rotation SDI6 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI6 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4013 / A 4014
Alarm message	Anticlockwise and clockwise rotation SDI7 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI7 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4015 / A 4016
Alarm message	Anticlockwise and clockwise rotation SDI8 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI8 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4017 / A 4018
Alarm message	Anticlockwise and clockwise rotation SDI9 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI9 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4019 / A 4020
Alarm message	Anticlockwise and clockwise rotation SDI10 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI10 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4021 / A 4022
Alarm message	Anticlockwise and clockwise rotation SDI11 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI11 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4023 / A 4024
Alarm message	Anticlockwise and clockwise rotation SDI12 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI12 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4401 / A 4402
Alarm message	Faulty EMU (ID1) monitoring in axle assembly
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4403 / A 4404
Alarm message	Faulty EMU (ID2) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4411 / A 4412
Alarm message	Faulty EMU (ID1) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4413 / A 4414
Alarm message	Faulty EMU (ID2) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4415 / A 4416
Alarm message	Faulty EMU (ID3) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4417 / A 4418
Alarm message	Faulty EMU (ID4) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4419 / A 4420
Alarm message	Faulty EMU (ID5) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4421 / A 4422
Alarm message	Faulty EMU (ID6) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4423 / A 4424
Alarm message	Faulty EMU (ID7) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4425 / A 4426
Alarm message	Faulty EMU (ID8) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4427 / A 4428
Alarm message	Faulty EMU (ID9) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4429 / A 4430
Alarm message	Faulty EMU (ID10) monitoring
Cause	External EMU feedback signal has invalid state
Remedy	<ul style="list-style-type: none"> • Check EMU feedback signal • Check output control and output wiring • Check reaction time inside configuration

Alarm code	A 4601 / A 4602
Alarm message	Monitoring range left and right of SLP1 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP1 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 4603 / A 4604
Alarm message	Monitoring range left and right of SLP2 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP2 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 4605 / A 4606
Alarm message	Monitoring range left and right of SLP3 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP3 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 4607 / A 4608
Alarm message	Monitoring range left and right of SLP4 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP4 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 4609 / A 4610
Alarm message	Monitoring range left and right of SLP5 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP5 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 4611 / A 4612
Alarm message	Monitoring range left and right of SLP6 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP6 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 4613 / A 4614
Alarm message	Monitoring range left and right of SLP7 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP7 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 4615 / A 4616
Alarm message	Monitoring range left and right of SLP8 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP8 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 4617 / A 4618
Alarm message	Monitoring range left and right of SLP9 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP2 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4619 / A 4620
Alarm message	Monitoring range left and right of SLP10 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP2 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4621 / A 4622
Alarm message	Was monitoring the area left and right of the SLP11 activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP11 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4623 / A 4624
Alarm message	Was monitoring the area left and right of the SLP12 activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP12 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4625 / A 4626
Alarm message	SLP1 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4627 / A 4628
Alarm message	SLP2 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4629 / A 4630
Alarm message	SLP3 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4631 / A 4632
Alarm message	SLP4 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4633 / A 4634
Alarm message	SLP5 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4635 / A 4636
Alarm message	SLP6 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4637 / A 4638
Alarm message	SLP7 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4639 / A 4640
Alarm message	SLP8 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4641 / A 4642
Alarm message	SLP9 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4643 / A 4644
Alarm message	SLP10 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4645 / A 4646
Alarm message	SLP11 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4647 / A 4648
Alarm message	SLP12 teach in Status error
Cause	SET and QUIT input and have a faulty switching sequence
Remedy	<ul style="list-style-type: none"> • Check input configuration • Check switching sequence

Alarm Code	A 4649 / A 4650
Alarm message	SLP1 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4651 / A 4652
Alarm message	SLP2 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4653 / A 4654
Alarm message	SLP3 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4655 / A 4656
Alarm message	SLP4 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4657 / A 4658
Alarm message	SLP5 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4659 / A 4660
Alarm message	SLP6 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4661 / A 4662
Alarm message	SLP7 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4663 / A 4664
Alarm message	SLP8 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4665 / A 4666
Alarm message	SLP9 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4667 / A 4668
Alarm message	SLP10 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4669 / A 4670
Alarm message	SLP11 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4671 / A 4672
Alarm message	SLP12 Teach In position error
Cause	Teach In Position out of range
Remedy	<ul style="list-style-type: none"> • Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4673 / A 4674
Alarm message	SLP1 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4675 / A 4676
Alarm message	SLP2 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4677 / A 4678
Alarm message	SLP3 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4679 / A 4680
Alarm message	SLP4 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4681 / A 4682
Alarm message	SLP5 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4683 / A 4684
Alarm message	SLP6 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4685 / A 4686
Alarm message	SLP7 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4687 / A 4688
Alarm message	SLP8 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4689 / A 4690
Alarm message	SLP9 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4691 / A 4692
Alarm message	SLP10 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4693 / A 4694
Alarm message	SLP11 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4695 / A 4696
Alarm message	SLP12 Teach in SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Remedy	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm code	A 4901 / A 4902
Alarm message	CCW and CW rotation monitoring SLI1 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI1 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 4903 / A 4904
Alarm message	CCW and CW rotation monitoring SLI2 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI2 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4905 / A 4906
Alarm message	CCW and CW rotation monitoring SLI3 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI3 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4907 / A 4908
Alarm message	CCW and CW rotation monitoring SLI4 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI4 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4909 / A 4910
Alarm message	CCW and CW rotation monitoring SLI5 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI5 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4911 / A 4912
Alarm message	CCW and CW rotation monitoring SLI6 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI6 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4913 / A 4914
Alarm message	CCW and CW rotation monitoring SLI7 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI7 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4915 / A 4916
Alarm message	CCW and CW rotation monitoring SLI8 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI8 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4917 / A 4918
Alarm message	CCW and CW rotation monitoring SLI9 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI9 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4919 / A 4920
Alarm message	CCW and CW rotation monitoring SLI10 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI10 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4921 / A 4922
Alarm message	CCW and CW rotation monitoring SLI11 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI11 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm Code	A 4923 / A 4924
Alarm message	CCW and CW rotation monitoring SLI12 activated at the same time
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI12 are activated simultaneously
Remedy	<ul style="list-style-type: none"> • Check the logic of the SLI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis

Alarm code	A 5001 / A 5002
Alarm message	Test deactivation of digital inputs 1...14 faulty
Cause	Inputs are still active after deactivation
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Power Cycle • Replace device

Alarm code	A 5101 / A 5102
Alarm message	Pulse fault EAE0.1
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5103 / A 5104
Alarm message	Pulse fault EAE0.2
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5105 / A 5106
Alarm message	Pulse fault EAE0.3
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5107 / A 5108
Alarm message	Pulse fault EAE0.4
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5109 / A 5110
Alarm message	Pulse fault EAE0.5
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5111 / A 5112
Alarm message	Pulse fault EAE0.6
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5113 / A 5114
Alarm message	Pulse fault EAE0.7
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5115 / A 5116
Alarm message	Pulse fault EAE0.8
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5117 / A 5118
Alarm message	Pulse fault EAE0.9
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5119 / A 5120
Alarm message	Pulse fault EAE0.10
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5121 / A 5122
Alarm message	Pulse fault EAE0.11
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5123 / A 5124
Alarm message	Pulse fault EAE0.12
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5125 / A 5126
Alarm message	Pulse fault EAE0.13
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5127 / A 5128
Alarm message	Pulse fault EAE0.14
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5129 / A 5130
Alarm message	Pulse fault EAE0.15
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5131 / A 5132
Alarm message	Pulse fault EAE0.16
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5133 / A 5134
Alarm message	Pulse fault EAE0.17
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5135 / A 5136
Alarm message	Pulse fault EAE0.18
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5137 / A 5138
Alarm message	Pulse fault EAE0.19
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5139 / A 5140
Alarm message	Pulse fault EAE0.20
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5141 / A 5142
Alarm message	Pulse fault EAE0.21
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5143 / A 5144
Alarm message	Pulse fault EAE0.22
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5145 / A 5146
Alarm message	Pulse fault EAE0.23
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5147 / A 5148
Alarm message	Pulse fault EAE0.24
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5149 / A 5150
Alarm message	Pulse fault EAE0.25
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5151 / A 5152
Alarm message	Pulse fault EAE0.26
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5153 / A 5154
Alarm message	Pulse fault EAE0.27
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5155 / A 5156
Alarm message	Pulse fault EAE0.28
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5157 / A 5158
Alarm message	Pulse fault EAE0.29
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5159 / A 5160
Alarm message	Pulse fault EAE0.30
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5161 / A 5162
Alarm message	Pulse fault EAE0.31
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5163 / A 5164
Alarm message	Pulse fault EAE0.32
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5165 / A 5166
Alarm message	Pulse fault EAE0.33
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5167 / A 5168
Alarm message	Pulse fault EAE0.34
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5169 / A 5170
Alarm message	Pulse fault EAE0.35
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5171 / A 5172
Alarm message	Pulse fault EAE0.36
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5173 / A 5174
Alarm message	Pulse fault EAE0.37
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5175 / A 5176
Alarm message	Pulse fault EAE0.38
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5177 / A 5178
Alarm message	Pulse fault EAE0.39
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 5179 / A 5180
Alarm message	Pulse fault EAE0.40
Cause	Unexpected status of pulse input
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs

Alarm code	A 6001 / A 6002
Alarm message	Diagnosis DI_Test fault IO-Board 1
Cause	Unexpected state of input barrier
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs • Check power supply on IO board

Alarm code	A 6003 / A 6004
Alarm message	Diagnosis DI_Test fault IO-Board 2
Cause	Unexpected state of input barrier
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs • Check power supply on IO board

Alarm code	A 6005 / A 6006
Alarm message	Diagnosis DI_Test fault IO-Board 3
Cause	Unexpected state of input barrier
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs • Check power supply on IO board

Alarm code	A 6007 / A 6008
Alarm message	Diagnosis DI_Test fault IO-Board 4
Cause	Unexpected state of input barrier
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs • Check power supply on IO board

Alarm code	A 6009 / A 6010
Alarm message	Diagnosis UDI fault IO-Board 1
Cause	Unexpected state of input barrier
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs • Check power supply on IO board

Alarm code	A 6011 / A 6012
Alarm message	Diagnosis UDI fault IO-Board 2
Cause	Unexpected state of input barrier
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs • Check power supply on IO board

Alarm code	A 6013 / A 6014
Alarm message	Diagnosis UDI fault IO-Board 3
Cause	Unexpected state of input barrier
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs • Check power supply on IO board

Alarm code	A 6015 / A 6016
Alarm message	Diagnosis UDI fault IO-Board 4
Cause	Unexpected state of input barrier
Remedy	<ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs • Check power supply on IO board

Alarm code	A 6701 / A 6702
Alarm message	Timeout fault MET
Cause	<ul style="list-style-type: none"> • Input unit with time supervision faulty
Remedy	<ul style="list-style-type: none"> • Check the wiring of the input unit • Check the type of the Input element • Input element faulty

Alarm code	A 6703 / A 6704
Alarm message	Timeout fault MEZ
Cause	<ul style="list-style-type: none"> • Two hand control unit with time supervision faulty
Remedy	<ul style="list-style-type: none"> • Check the wiring of the input unit • Check the type of the Input element • Input element faulty

Alarm Code	A 7401
Alarm message	Master in alarm status. Slaves put on alert.
Cause	STOP / START request
Remedy	BUS reboot reset

Alarm Code	A 7403 / A 7404
Alarm message	Faulty transmission telegram from slave to master
Cause	Module change or STOP / START request
Remedy	BUS reboot reset

Alarm Code	A 9101 / A 9102
Alarm message	SDDC signature error master -> slave
Cause	Configuration bus communication error
Remedy	Enabling and disabling device

2.1 Fatal fault list SMX100

Fatal Error Code	F 1001/ F 1002
Fault message	Configuration data were loaded faultily into the supervision device
Cause	<ul style="list-style-type: none"> • Connection fault during the download of the program • Transmission of wrong or incomplete binary file
Remedy	<ul style="list-style-type: none"> • Send configuration data again • Check tooling connection • Power Cycle

Fatal Error Code	F 1003 / F1004
Fault message	Configuration data for software version assembly group invalid!
Cause	Assembly group has been configured with a wrong software version of the programming interface.
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of the application software • Configured device with released application software • Power Cycle

Fatal Error Code	F 1007 / F1008
Fault message	Device has not been programmed with the correct programming interface
Cause	<ul style="list-style-type: none"> • A wrong device type was selected during programming • Binary data from different device type were used to send
Remedy	<ul style="list-style-type: none"> • Select the correct device type before programming the device • Select the necessary device variant according to your hardware requirement

Fatal Error Code	F 1009
Error message	Configured device variant does not match physical device.
Cause	<ul style="list-style-type: none"> • A wrong device type was selected during programming • Binary data from different device type were used to send
Error correction	<ul style="list-style-type: none"> • Select the correct device type before programming the device • Select the necessary device variant according to your hardware requirement

Fatal Error Code	F 1307
Error message	Error while erasing the configuration flash
Cause	• -
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of the application software • Send the configuration again • Power Cycle • Replace device

Fatal Error Code	F 1311 / F1312
Error message	Error while erasing the configuration flash
Cause	-
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of the application software • Send the configuration again • Power Cycle • Replace device

Fatal Error Code	F 1314
Error message	Error while erasing the configuration flash
Cause	-
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of the application software • Send the configuration again • Power Cycle • Replace device

Fatal Error Code	F 1330
Error message	I2C Bus error while writing to FRAM
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 1401 / F 1402
Error message	Test counter CRC config data
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 1403 / F 1404
Error message	CRC of configuration data invalid!
Cause	Configuration data transmitted incorrectly
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of the application software • Re-compile program • Re-transmit configuration to device • Power Cycle

Fatal Error Code	F 1406
Error message	Incorrect boot
Cause	-
Remedy	<ul style="list-style-type: none"> • Send the configuration again • Power Cycle • Replace device

Fatal Error Code	F 1407 / F 1408
Error message	Config identifier not supported by hardware
Cause	<ul style="list-style-type: none"> • Programming software does not support connected hardware • Error transmitting configuration
Remedy	<ul style="list-style-type: none"> • Check version of programming software • Check FW Version and Version of the application software • Re-Transmit configuration data

Fatal Error Code	F 1409 / F 1410
Error message	CRC of PLC program invalid (AWL list)
Cause	<ul style="list-style-type: none"> • Programming software does not support connected hardware • Error transmitting configuration
Remedy	<ul style="list-style-type: none"> • Check version of programming software • Check FW Version and Version of the application software • Re-Transmit configuration data

Fatal Error Code	F 1411 / F 1412
Error message	Configuration data differences in System A and B
Cause	Error transmitting configuration
Remedy	<ul style="list-style-type: none"> • Re-Transmit configuration data • Power Cycle

Fatal Error Code	F 1413 / F 1414
Fault message	Error sequentially calculating the CRC's configuration data
Cause	Error configuration crc test length
Remedy	<ul style="list-style-type: none"> • Re-Transmit configuration data • Power Cycle

Fatal Error Code	F 1501 / F 1502
Error message	Firmware parameter CRC test counter
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 1503 / F 1504
Error message	Wrong firmware parameter CRC
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 1505 / F 1506
Error message	Error while sending firmware parameter to CPU B
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 1601 - F 1998
Error message	Range check
Cause	<ul style="list-style-type: none"> • Incompatible application software • Error when importing old layout on new application software
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of the application software • Check and correct faulty blocks inside application • Delete and reinsert faulty blocks inside function plan • Program device with originally shipped application software

Fatal Error Code	F 1601- F 1998
Error message	<p>1601...1614: Configuration data SCA faulty. 1615...1629: Configuration data SSX faulty. 1630...1644: Configuration data SEL faulty. 1645...1659: Configuration data SLP faulty. 1660...1669: Configuration data SOS faulty. 1670...1679: Configuration data SLS faulty. 1680...1689: Configuration data SDI faulty. 1690...1699: Configuration data SAC faulty. 1700...1709: Configuration data SLI faulty. 1710...1719: Configuration data STO faulty. 1720...1729: Configuration data SSM faulty. 1730...1739: Configuration data SLT faulty. 1740...1749: Configuration data SREF faulty. 1750...1759: Configuration data SMX100 Master (I/O, Fastchannel) faulty. 1760...1769: Configuration data SMX100 Master EMU faulty. 1770...1794: Configuration data axis module (I/O, Fastchannel) faulty. 1795...1819: Configuration data axis module (axis data) faulty. 1820...1844: Configuration data axis module (encoder data) faulty. 1845...1859: Configuration data axis assembly (encoder scaling) faulty. 1860...1869: Configuration data I/O module faulty. 1870...1874: Configuration data analog module faulty. 1875...1884: Configuration data axis module (analog input) faulty. 1895...1904: Configuration data analog adder faulty. 1905...1924: Configuration data SDDC bus faulty. 1925...1934: Configuration data fieldbus faulty. 1935...1949: Configuration data FDataExchange faulty. 1950...1954: Configuration data LinkTable faulty. 1955...1959: Configuration data Device Descriptor faulty. 1960...1969: Configuration data Diagnosis faulty. 1970...1974: Configuration data PLC Timer faulty. 1975...1984: Configuration data PLC IL list faulty. 1985...1997: Configuration data DEM faulty. 1998...1999: Configuration data DeviceID and ConfigID faulty.</p>
Cause	Faulty range check of the configuration data
Remedy	Check configuration data and send again.

Fatal Error Code	F 2001 / F 2002
Error message	CRC of SPI cross communication CPU A-B wrong
Cause	Interference on SPI cross communication between both CPUs
Remedy	<ul style="list-style-type: none"> • Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 2003 / F 2004
Error message	Timeout during transmission of configurations and firmware data
Cause	Interference on SPI cross communication between both CPUs
Remedy	<ul style="list-style-type: none"> • Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 2005
Error message	Timeout cyclic cross communication
Cause	Interference on SPI cross communication between both CPUs
Remedy	<ul style="list-style-type: none"> • Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 2007
Error message	Timeout synchronisation CPU B
Cause	Interference on SPI cross communication between both CPUs
Remedy	<ul style="list-style-type: none"> • Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 2009
Error message	Timeout data transmission complementary channel
Cause	Interference on SPI cross communication between both CPUs
Remedy	<ul style="list-style-type: none"> • Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 2011
Error message	Timeout synchronisation cycle start
Cause	-
Remedy	<ul style="list-style-type: none"> • Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 3001 / F 3002
Error message	Ticker sync error
Cause	-
Remedy	<ul style="list-style-type: none"> • Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 3201 / F 3202
Fault message	Processor voltage 2.5V outside defined range
Cause	<ul style="list-style-type: none"> • Supply voltage for module not correct! • Component fault in module
Remedy	<ul style="list-style-type: none"> • Check device supply voltage! • Switch device off/on.

Fatal Error Code	F 3203
Fault message	Supply voltage 24V module faulty.
Cause	<ul style="list-style-type: none"> • Supply voltage for module not correct! • Component fault in module
Remedy	<ul style="list-style-type: none"> • Check device supply voltage! • Switch device off/on.

Fatal Error Code	F 3204
Fault message	Internal supply voltage 5.7V faulty
Cause	<ul style="list-style-type: none"> • Supply voltage for module not correct! • Component fault in module
Remedy	<ul style="list-style-type: none"> • Check device supply voltage! • Switch device off/on.

Fatal Error Code	F 3217 / F 3218
Error message	Internal supply voltage 5V incorrect.
Cause	<ul style="list-style-type: none"> • Supply voltage of assembly group incorrect! • Component error in assembly group
Remedy	<ul style="list-style-type: none"> • Check device supply voltage! • Switch off/on device.

Fatal Error Code	F 3237 / F 3238
Error message	24V supply of outputs is faulty (IO device)
Cause	24V supply of outputs on IO device out of the tolerance range
Remedy	<ul style="list-style-type: none"> • Check device supply voltage! • Power cycle

Fatal Error Code	F 3239 / F 3240
Error message	24V Supply voltage on IO-Board 1 incorrect
Cause	<ul style="list-style-type: none"> • Supply voltage of assembly group incorrect! • Component error in assembly group
Remedy	<ul style="list-style-type: none"> • Check device supply voltage! • Switch off/on device.

Fatal Error Code	F 3241 / F 3242
Error message	24V Supply voltage on IO-Board 2 incorrect
Cause	<ul style="list-style-type: none"> • Supply voltage of assembly group incorrect! • Component error in assembly group
Remedy	<ul style="list-style-type: none"> • Check device supply voltage! • Switch off/on device.

Fatal Error Code	F 3243 / F 3244
Error message	24V Supply voltage on IO-Board 3 incorrect
Cause	<ul style="list-style-type: none"> • Supply voltage of assembly group incorrect! • Component error in assembly group
Remedy	<ul style="list-style-type: none"> • Check device supply voltage! • Switch off/on device.

Fatal Error Code	F 3245 / F 3246
Error message	24V Supply voltage on IO-Board 4 incorrect
Cause	<ul style="list-style-type: none"> • Supply voltage of assembly group incorrect! • Component error in assembly group
Remedy	<ul style="list-style-type: none"> • Check device supply voltage! • Switch off/on device.

Fatal Error Code	F 3603 / F 3604
Fault message	Faulty switching of relay K1
Cause	Internal relay activation incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check environmental conditions of device • Power Cycle • Replace Device

Fatal Error Code	F 3605 / F 3606
Fault message	Faulty switching of relay K2
Cause	Internal relay activation incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check environmental conditions of device • Power Cycle • Replace Device

Fatal Error Code	F 3609
Fault message	Faulty switching of "0V" driver DO1_L
Cause	Switching status output incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3610
Fault message	Faulty switching of "24V" driver DO1_H
Cause	Switching status output incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3611
Fault message	Faulty switching of "0V" driver DO2_L
Cause	Switching status output incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3612
Fault message	Faulty switching of "24V" driver DO2_H
Cause	Switching status output incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3613
Fault message	Faulty switching of "0V" driver DO1_L
Cause	Switching status output incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3614
Fault message	Faulty testing of "24V" driver DO1_H
Cause	Switching status output incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3615
Fault message	Faulty testing of "0V" driver DO2_L
Cause	Switching status output incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3616
Fault message	Faulty testing of "24V" driver DO2_H
Cause	Switching status output incorrect
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3617
Error message	Incorrect switching power switch DO1_L
Cause	Wrong wiring on device
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3618
Error message	Incorrect switching power switch DO1_H
Cause	Wrong wiring on device
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device
Error message	Internal error – please contact the manufacturer!

Fatal Error Code	F 3619
Error message	Incorrect switching power switch DO2_L
Cause	Wrong wiring on device
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3620
Error message	Incorrect switching power switch DO2_H
Cause	Wrong wiring on device
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3621
Error message	Incorrect switching of NO/NC contact relay K1
Cause	Wrong wiring on device
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3622
Error message	Incorrect switching of NO/NC contact relay K2
Cause	Wrong wiring on device
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3623
Error message	Incorrect switching of output main switch
Cause	<ul style="list-style-type: none"> • Wrong wiring on device • Short circuit
Remedy	<ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3623 / F 3625 / F3626
Fault message	Internal Error Startup test slave module
Cause	Missing or faulty 24V power supply
Remedy	<ul style="list-style-type: none"> • Check 24V power supply SMX100 master module • Check that all power connectors are connected

Fatal Error Code	F 3641 / F 3642
Fault message	Internal Error Startup test master module REL
Cause	Missing or faulty 24V power supply
Remedy	<ul style="list-style-type: none"> • Check 24V power supply SMX100 master module • Check that all power connectors are connected • Check input and output voltage • Power Cycle

Fatal Error Code	F 3643 / F 3644
Fault message	Internal Error Startup test master module EA1
Cause	Missing or faulty 24V power supply
Remedy	<ul style="list-style-type: none"> • Check 24V power supply SMX100 master module • Check that all power connectors are connected • Check input and output voltage • Power Cycle

Fatal Error Code	F 3645 / F 3646
Fault message	Internal Error Startup test master module EA2
Cause	Missing or faulty 24V power supply
Remedy	<ul style="list-style-type: none"> • Check 24V power supply SMX100 master module • Check that all power connectors are connected • Check input and output voltage • Power Cycle

Fatal Error Code	F 3647 / F 3648
Fault message	Internal Error Startup test master module EA3
Cause	Missing or faulty 24V power supply
Remedy	<ul style="list-style-type: none"> • Check 24V power supply SMX100 master module • Check that all power connectors are connected • Check input and output voltage • Power Cycle

Fatal Error Code	F 3649 / F 3650
Fault message	Internal Error Startup test master module EA4
Cause	Missing or faulty 24V power supply
Remedy	<ul style="list-style-type: none"> • Check 24V power supply SMX100 master module • Check that all power connectors are connected • Check input and output voltage • Power Cycle

Fatal Error Code	F 3651 / F 3652
Fault message	Internal Error Startup test master module HS
Cause	Missing or faulty 24V power supply
Remedy	<ul style="list-style-type: none"> • Check 24V power supply SMX100 master module • Check that all power connectors are connected • Check input and output voltage • Power Cycle

Fatal Error Code	F 3665 / F 3666
Fault message	Static test loss of ground HighSide 2
Cause	<ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring • Power Cycle

Fatal Error Code	F 3667 / F 3668
Fault message	Static test loss of ground HighSide 4
Cause	<ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring • Power Cycle

Fatal Error Code	F 3669 / F 3670
Fault message	Dynamic test loss of ground HighSide 2
Cause	<ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring • Power Cycle

Fatal Error Code	F 3671 / F 3672
Fault message	Dynamic test loss of ground HighSide 4
Cause	<ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect
Remedy	<ul style="list-style-type: none"> • Check the wiring • Power Cycle

Fatal Error Code	F 3701 / F 3702
Error message	Error comparing process images CPU A – CPU B
Cause	-
Remedy	<ul style="list-style-type: none"> • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 3841 / F 3842
Fault message	Faulty dynamic test of output EAAx.1
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3843 / F 3844
Fault message	Faulty dynamic test of output EAAx.2
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3845 / F 3846
Fault message	Faulty dynamic test of output EAAx.3
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3847 / F 3848
Fault message	Faulty dynamic test of output EAAx.4
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3849 / F 3850
Fault message	Faulty dynamic test of output EAAx.5
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3851 / F 3852
Fault message	Faulty dynamic test of output EAAx.6
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3853 / F 3854
Fault message	Faulty dynamic test of output EAAx.7
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3855 / F 3856
Fault message	Faulty dynamic test of output EAAx.8
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3857 / F 3858
Fault message	Faulty dynamic test of output EAAx.9
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3859 / F 3860
Fault message	Faulty dynamic test of output EAAx.10
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3871 / F 3872
Fault message	MainTrans EAAx.1 ... EAAx.6 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3873 / F3874
Fault message	MainTrans EAAx.7... EAAx.10 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3891 / F 3892
Fault message	MainTrans EAAx.01 ... EAAx.06 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3893 / F 3894
Fault message	MainTrans EAAx.07 ... EAAx.10 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3971 / F 3972
Fault message	MainTrans EAA11 ... EAA16 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3973 / F 3974
Fault message	MainTrans EAA16 ... EAA20 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3975 / F 3976
Fault message	MainTrans EAA11 ... EAA16 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3977 / F 3978
Fault message	MainTrans EAA17 ... EAA20 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3981 / F 3982
Fault message	MainTrans EAA21 ... EAA26 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3983 / F 3984
Fault message	MainTrans EAA26 ... EAA30 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3985 / F 3986
Fault message	MainTrans EAA21 ... EAA26 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3987 / F 3988
Fault message	MainTrans EAA27 ... EAA30 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3991 / F 3992
Fault message	MainTrans EAA31 ... EAA36 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3993 / F 3994
Fault message	MainTrans EAA36 ... EAA40 static test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3995 / F 3996
Fault message	MainTrans EAA31 ... EAA36 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3997 / F 3998
Fault message	MainTrans EAA37 ... EAA40 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 4501 / F 4502
Alarm message	Incorrect calculation of brake ramp SSX
Cause	Calculation of brake ramp would lead to integer overflow. Incorrect configuration
Remedy	<ul style="list-style-type: none"> • Check monitored sector and stopping distance • Check SSX configuration • Contact manufacturer

Fatal Error Code	F 4503 / F 4504
Alarm message	Incorrect calculation of SSX limit ramp
Cause	Calculation of limit ramp would lead to integer overflow. Incorrect configuration
Remedy	<ul style="list-style-type: none"> • Check monitored sector and stopping distance • Check SSX configuration • Contact manufacturer

Fatal Error Code	F 5202 / F 5203
Fault message	Fault EAA0.11 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5204 / F 5205
Fault message	Fault EAA0.12 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5206 / F 5207
Fault message	Fault EAA0.13 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5208 / F 5209
Fault message	Fault EAA0.14 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5210 / F 5211
Fault message	Fault EAA0.15 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5212 / F 5213
Fault message	Fault EAA0.16 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5214 / F 5215
Fault message	Fault EAA0.17 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5216 / F 5217
Fault message	Fault EAA0.18 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5218 / F 5219
Fault message	Fault EAA0.19 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5220 / F 5221
Fault message	Fault EAA0.20 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5222 / F 5223
Fault message	Fault EAA0.21 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5224 / F 5225
Fault message	Fault EAA0.22 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5226 / F 5227
Fault message	Fault EAA0.23 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5228 / F 5229
Fault message	Fault EAA0.24 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5230 / F 5231
Fault message	Fault EAA0.25 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5232 / F 5233
Fault message	Fault EAA0.26 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5234 / F 5235
Fault message	Fault EAA0.27 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5236 / F 5237
Fault message	Fault EAA0.28 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5238 / F 5239
Fault message	Fault EAA0.29 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5240 / F 5241
Fault message	Fault EAA0.30 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5242 / F 5243
Fault message	Fault EAA0.31 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5244 / F 5245
Fault message	Fault EAA0.32 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5246 / F 5247
Fault message	Fault EAA0.33 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5248 / F 5249
Fault message	Fault EAA0.34 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5250 / F 5251
Fault message	Fault EAA0.35 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5252 / F 5253
Fault message	Fault EAA0.36 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5254 / F 5255
Fault message	Fault EAA0.37 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5256 / F 5257
Fault message	Fault EAA0.38 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5258 / F 5259
Fault message	Fault EAA0.39 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 5260 / F 5261
Fault message	Fault EAA0.40 dynamic test
Cause	Short circuit of output with „24V“ or „0V“
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 6705
Fault message	Master switch status error
Cause	Invalid state while evaluating the master switch
Remedy	<ul style="list-style-type: none"> • Check wiring of the outputs • Check the wiring of input elements • Power Cycle

Fatal Error Code	F 6801 / F 6802
Error message	Invalid PLC Op Code
Cause	-
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of application software for compatibility • Re-transmit configuration • Power Cycle

Fatal Error Code	F 6803 / F 6804
Error message	PLC processing
Cause	-
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of application software for compatibility • Re-transmit configuration • Power Cycle

Fatal Error Code	F 6805 / F 6806
Error message	PLC AWL
Cause	-
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of application software for compatibility • Re-transmit configuration • Power Cycle

Fatal Error Code	F 6807 / F 6808
Error message	PLC timer overflow
Cause	<ul style="list-style-type: none"> • Incompatible application software • On or more PLC timer values are not multiples of the cycle time
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of application software for compatibility • Check every PLC timer to be a multiple of 8ms • Re-transmit configuration • Power Cycle

Fatal Error Code	F 6809 / F 6810
Error message	Wrong PLC macro CRC
Cause	-
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of application software for compatibility • Re-transmit configuration • Power Cycle

Fatal Error Code	F 6811 / F 6812
Error message	Wrong PLC macro termination
Cause	-
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of application software for compatibility • Re-transmit configuration • Power Cycle

Fatal Error Code	F 6813 / F 6814
Error message	PLC kernel raised a fatal error
Cause	-
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of application software for compatibility • Re-transmit configuration • Power Cycle

Fatal Error Code	F 7429 / F 7430
Error message	Inconsistent Profisafe program run counter
Cause	-
Remedy	<ul style="list-style-type: none"> • Re-transmit configuration • Check fieldbus connectivity of device • Power Cycle

Fatal Error Code	F 8205 / F 8206
Error message	Maximum cycle length exceeded
Cause	Processing the application would exceed the maximum cycle time of the device
Remedy	<ul style="list-style-type: none"> • Reduce the number of used PLC operands by simplifying your program • Remove unused blocks from application • Power Cycle

Fatal Error Code	F 8207 / F 8208
Error message	Logical Program counter exceeds maximum
Cause	-
Remedy	<ul style="list-style-type: none"> • Re-transmit configuration to device • Power Cycle

Fatal Error Code	F 8213 / F 8214
Error message	Runtime overflow interrupt
Cause	-
Remedy	<ul style="list-style-type: none"> • Re-transmit configuration to device • Power Cycle

Fatal Error Code	F 8221 / F 8222
Error message	Maximum runtime complementary channel exceeded
Cause	Processing the application would exceed the maximum cycle time of the device
Remedy	<ul style="list-style-type: none"> • Reduce the number of used PLC operands by simplifying your program • Remove unused blocks from application • Power Cycle

Fatal Error Code	F 8223 / F 8224
Error message	Inconsistent logical Interrupt program counter
Cause	-
Remedy	<ul style="list-style-type: none"> • Re-transmit configuration to device • Power Cycle

Fatal Error Code	F 8225 / F 8226
Error message	Ticker sync error
Cause	<ul style="list-style-type: none"> • Maximum runtime exceeded • Communication error with extension device (s)
Remedy	<ul style="list-style-type: none"> • Check the back pane bus connection • Reduce the number of used PLC operands by simplifying your program • Remove unused blocks from application • Power Cycle

Fatal Error Code	F 8227 / F 8228
Error message	Maximum interrupt runtime complementary channel exceeded
Cause	Processing the application would exceed the maximum cycle time of the device
Remedy	<ul style="list-style-type: none"> • Reduce the number of used PLC operands by simplifying your program • Remove unused blocks from application • Power Cycle

Fatal Error Code	F 9001 / F 9002
Error message	CPU self test error
Cause	-
Remedy	<ul style="list-style-type: none"> • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 9007 / F 9008
Error message	CPU RAM test returned with error
Cause	-
Remedy	<ul style="list-style-type: none"> • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 9009 / F 9010
Error message	Firmware CRC mismatch
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 9011 / F 9012
Error message	Internal stack test returned with an error
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 9013 / F 9014
Error message	Error NVRAM test
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 9015 / F 9016
Error message	Error CPU RAM test
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 9017 / F 9018
Error message	Error CPU register test
Cause	-
Remedy	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 9019 / F 9020
Power Cycle	Switch default
Replace device	-
Power Cycle	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 9021 / F 9022
Power Cycle	Self-test Evaluation Software Variables
Replace device	-
Power Cycle	<ul style="list-style-type: none"> • Power Cycle • Replace device

Fatal Error Code	F 9103 / F 9104
Fault message	Network type for slave module undefined
Cause	Incorrect configuration of the network type
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of application software for compatibility • Check every PLC timer to be a multiple of 8ms • Re-transmit configuration • Power Cycle

Fatal Error Code	F 9105/ F 9106
Fault message	Incorrect pointer monitoring
Cause	Isolated pointer points to faulty memory area
Remedy	<ul style="list-style-type: none"> • Check FW Version and Version of application software for compatibility • Power Cycle