Error list

of

JSC-110 modules



Error list for devices JSC-110, JSC-110-1-RS, JSC-110-2-RS of series JSC-110 and expansion module JSX1-DIO22

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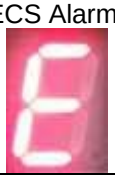
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1. General

1.1. Error types

The JSC-110 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. 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 JSC (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

1.2. Display of the error types

There are two ways in which the error number is displayed

JSC-110 without expansion modules

F, A or E Error number

JSC-110 with expansion modules

F, A or E 1) Error number

Note 1) Device address
0: Basic device
1: expansion module with logical address 1
2: expansion module with logical address 2

1.3. 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.

	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! Solving the cause of the error must be preferred to muting the alarm.

2. Alarm list

Alarm Code	A 2101 / A 2102
Alarm message	Timeout receipt telegram JSX1-DIO22 (address 1)
Cause	Telegram of expansion assembly group not received in time
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2105 / A 2106
Alarm message	CRC error transmission telegram JSX1-DIO22 (address 1)
Cause	Transmission telegram incorrect
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2107 / A 2108
Alarm message	CRC error transmission telegram
Cause	Transmission telegram incorrect
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2109 / A 2110
Alarm message	CRC error receipt telegram
Cause	Receipt telegram incorrect
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2111
Alarm message	Timeout communication with expansion assembly group JSX1-DIO22 (address 1)
Cause	Incorrect Installation of expansion assembly group
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2113
Alarm message	Expansion assembly group JSX1-DIO22 (address 1) existing but not configured
Cause	Incorrect configuration
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2115 / A2116
Alarm message	Expansion assembly group JSX1-DIO22 has incorrect logical address
Cause	Incorrect configuration
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2121 / A 2122
Alarm message	Timeout receipt telegram JSX1-DIO22 (address 2)
Cause	Telegram of expansion assembly group not received in time
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2125 / A 2126
Alarm message	CRC error transmission telegram JSX1-DIO22 (address 2)
Cause	Transmission telegram incorrect
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2131
Alarm message	Timeout communication with expansion assembly group JSX1-DIO22 (address 2)
Cause	Incorrect installation of expansion assembly group
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 2133
Alarm message	Expansion assembly group JSX1-DIO22 (address 2) existing but not configured
Cause	Incorrect configuration
Error correction	• Check configuration of extension devices • Check physical connection to extension devices • Check address switch on extension devices • Power Cycle of all connected devices

Alarm Code	A 3031 / A 3032
Alarm message	Pulse P1 plausibility error on expanding input IOx.1
Cause	This input does not have the configured Pulse P1 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3033 / A 3034
Alarm message	Pulse P1 plausibility error on expanding input IOx.1
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3035 / A 3036
Alarm message	Incorrect 24V signal on IOx.1
Cause	The input does not have a permanent 24V voltage.
Error correction	• Check voltage on digital input! • Check wiring • Check whether Pulse P1 or Pulse P2 is active

Alarm Code	A 3037 / A 3038
Alarm message	Pulse P1 plausibility error on expanding input IOx.2
Cause	This input does not have the configured Pulse P1 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3039 / A 3040
Alarm message	Pulse P2 plausibility error on expanding input IOx.2
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3041 / A 3042
Alarm message	Incorrect 24V signal on IOx.2
Cause	The input does not have a permanent 24V voltage.
Error correction	• Check voltage on digital input! • Check wiring • Check whether Pulse P1 or Pulse P2 is active

Alarm Code	A 3043 / A 3044
Alarm message	Pulse P1 plausibility error on expanding input IOx.3
Cause	This input does not have the configured Pulse P1 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3045 / A 3046
Alarm message	Pulse P2 plausibility error on expanding input IOx.3
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3047 / A 3048
Alarm message	Incorrect 24V signal on IOx.3
Cause	The input does not have a permanent 24V voltage.
Error correction	• Check voltage on digital input! • Check wiring • Check whether Pulse P1 or Pulse P2 is active

Alarm Code	A 3049 / A 3050
Alarm message	Pulse P1 plausibility error on expanding input IOx.4
Cause	This input does not have the configured Pulse P1 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3051 / A 3052
Alarm message	Pulse P2 plausibility error on expanding input IOx.4
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3053 / A 3054
Alarm message	Incorrect 24V signal on IOx.4
Cause	The input does not have a permanent 24V voltage.
Error correction	• Check voltage on digital input! • Check wiring • Check whether Pulse P1 or Pulse P2 is active

Alarm Code	A 3055 / A 3056
Alarm message	Pulse P1 plausibility error on expanding input IOx.5
Cause	This input does not have the configured Pulse P1 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3057 / A 3058
Alarm message	Pulse P2 plausibility error on expanding input IOx.5
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3059 / A 3060
Alarm message	Incorrect 24V signal on IOx.5
Cause	The input does not have a permanent 24V voltage.
Error correction	• Check voltage on digital input! • Check wiring • Check whether Pulse P1 or Pulse P2 is active

Alarm Code	A 3061 / A 3062
Alarm message	Pulse P1 plausibility error on expanding input IOx.6
Cause	This input does not have the configured Pulse P1 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3063 / A 3064
Alarm message	Pulse P2 plausibility error on expanding input IOx.6
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3065 / A 3066
Alarm message	Pulse P1 plausibility error on expanding input IOx.7
Cause	This input does not have the configured Pulse P1 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3067 / A 3068
Alarm message	Pulse P1 plausibility error on expanding input IOx.7
Cause	This input does not have the configured Pulse P1 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3069 / A 3070
Alarm message	Pulse P2 plausibility error on expanding input IOx.7
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3071 / A 3072
Alarm message	Incorrect 24V signal on IOx.7
Cause	The input does not have a permanent 24V voltage.
Error correction	• Check voltage on digital input! • Check wiring • Check whether Pulse P1 or Pulse P2 is active

Alarm Code	A 3073 / A 3074
Alarm message	Pulse P1 plausibility error on expanding input IOx.8
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3075 / A 3076
Alarm message	Pulse P2 plausibility error on expanding input IOx.8
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3077 / A 3078
Alarm message	Incorrect 24V signal on IOx.8
Cause	The input does not have a permanent 24V voltage.
Error correction	• Check voltage on digital input! • Check wiring • Check whether Pulse P1 or Pulse P2 is active

Alarm Code	A 3079 / A 3080
Alarm message	Pulse P1 plausibility error on expanding input IOx.9
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3081 / A 3082
Alarm message	Pulse P2 plausibility error on expanding input IOx.9
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3083 / A 3084
Alarm message	Incorrect 24V signal on IOx.9
Cause	The input does not have a permanent 24V voltage.
Error correction	• Check voltage on digital input! • Check wiring • Check whether Pulse P1 or Pulse P2 is active

Alarm Code	A 3085 / A 3086
Alarm message	Pulse P1 plausibility error on expanding input IOx.10
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3087 / A 3088
Alarm message	Pulse P2 plausibility error on expanding input IOx.10
Cause	This input does not have the configured Pulse P2 voltage.
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring

Alarm Code	A 3089 / A 3090
Alarm message	Incorrect 24V signal on IOx.10
Cause	The input does not have a permanent 24V voltage.
Error correction	• Check voltage on digital input! • Check wiring • Check whether Pulse P1 or Pulse P2 is active

Alarm Code	A 3101 / A 3102	ICS
Alarm message	Pulse P1 plausibility error on input DI1	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3103 / A 3104	ICS
Alarm message	Pulse P1 plausibility error on input DI2	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3105 / A 3106	ICS
Alarm message	Pulse P1 plausibility error on input DI3	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3107 / A 3108	ICS
Alarm message	Pulse P1 plausibility error on input DI4	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3109 / A 3110	ICS
Alarm message	Pulse P1 plausibility error on input DI5	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3111 / A 3112	ICS
Alarm message	Pulse P1 plausibility error on input DI6	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3113 / A 3114	ICS
Alarm message	Pulse P1 plausibility error on input DI7	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3115 / A 3116	ICS
Alarm message	Pulse P1 plausibility error on input DI8	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3117 / A 3118	ICS
Alarm message	Pulse P2 plausibility error on input DI1	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3119 / A 3120	ICS
Alarm message	Pulse P2 plausibility error on input DI2	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3121 / A 3122	ICS
Alarm message	Pulse P2 plausibility error on input DI3	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3123 / A 3124	ICS
Alarm message	Pulse P2 plausibility error on input DI4	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3125 / A 3126	ICS
Alarm message	Pulse P2 plausibility error on input DI5	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3127 / A 3128	ICS
Alarm message	Pulse P2 plausibility error on input DI6	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3129 / A 3130	ICS
Alarm message	Pulse P2 plausibility error on input DI7	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3131 / A 3132	ICS
Alarm message	Pulse P2 plausibility error on input DI8	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3133 / A 3134	ICS
Alarm message	Pulse P1 plausibility error on input DI9	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3135 / A 3136	ICS
Alarm message	Pulse P1 plausibility error on input DI10	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3137 / A 3138	ICS
Alarm message	Pulse P1 plausibility error on input DI11	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3139 / A 3140	ICS
Alarm message	Pulse P1 plausibility error on input DI12	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3141 / A 3142	ICS
Alarm message	Pulse P1 plausibility error on input DI13	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3143 / A 3144	ICS
Alarm message	Pulse P1 plausibility error on input DI14	
Cause	This input does not have the configured Pulse P1 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3147 / A 3148	ICS
Alarm message	Pulse P2 plausibility error on input DI9	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3149 / A 3150	ICS
Alarm message	Pulse P2 plausibility error on input DI10	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3151 / A 3152	ICS
Alarm message	Pulse P2 plausibility error on input DI11	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3153 / A 3154	ICS
Alarm message	Pulse P2 plausibility error on input DI12	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3155 / A 3156	ICS
Alarm message	Pulse P2 plausibility error on input DI13	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3157 / A 3158	ICS
Alarm message	Pulse P2 plausibility error on input DI14	
Cause	This input does not have the configured Pulse P2 voltage.	
Error correction	• Check the configuration of the digital input according to projection and circuit diagram • Check wiring	

Alarm Code	A 3191 / A 3192	ICS
Alarm message	Short circuit error digital inputs	
Cause	Short circuit between the digital inputs within the assembly group	
Error correction	• Power Reset • Check degree of pollution of device • Check external wiring • Replace device	

Alarm Code	A 3197 / A 3198	ICS
Alarm message	Incorrect OSSD input check	
Cause	OSSD test incorrect	
Error correction	• Check 24V input voltage of all OSSD inputs • Power Reset	

Alarm Code	A 3209 / A 3210	ECS
Alarm message	Sensor supply voltage X31 incorrect.	
Cause	• Sensor supply voltage does not correspond to the configured threshold	
Error correction	• Check configuration! • Check sensor supply voltage • Switch off/on device	

Alarm Code	A 3213 / A 3214	ECS
Alarm message	Sensor supply voltage X32 incorrect.	
Cause	• Sensor supply voltage does not correspond to the configured threshold	
Error correction	• Check configuration! • Check sensor supply voltage • Switch off/on device	

Alarm Code	A 3241
Alarm Meldung	Alarm message Supply voltage 24V module falls below minimum.
Cause	• The module supply voltage is not correct • Voltage drops • Component failure on the assembly
Error correction	• Check device supply voltage! • Check the output circuit of the module! • Switch the device off / on!

Alarm Code	A 3301 / A 3302	ECS
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	
Error correction	• 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	ECS
Alarm message	Plausibility error position recording axis 1	
Cause	The difference between the two position signals is higher than the configured switch off threshold for increments	
Error correction	• 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	ECS
Alarm message	Plausibility error incorrect position range axis 1	
Cause	The current position is outside of the configured measuring length	
Error correction	• 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	ECS
Alarm message	Plausibility error incorrect speed axis 1	
Cause	• The current speed is outside of the configured maximal speed • The drive is moving above the allowed maximum speed	
Error correction	• 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	ECS
Alarm message	SSI sensor error	
Cause	• Sensor switch SSI value too large within a cycle	
Error correction	• Check sensor wiring • Check sensor configuration	

Alarm Code	A 3317 / A 3318	ECS
Alarm message	Plausibility error of the signals of the incremental encoder (single and quad-counter comparison failed)	
Cause	• Signals on track A do not correspond to track B • Damaged RS485 encoder interface • Encoder operates out of encoder interface specification	
Error correction	• 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	ECS
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	
Error correction	• 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	ECS
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	
Error correction	• 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	ECS
Alarm message	Plausibility error incorrect position range axis 2	
Cause	The current position is outside of the configured measuring length	
Error correction	• 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 3329 / A 3330	ECS
Alarm message	Plausibility error incorrect speed axis 2	
Cause	• The current speed is outside of the configured maximal speed • The drive is moving above the allowed maximum speed	
Error correction	• 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 3331 / A 3332	ECS
Alarm message	Configuration error: Acceleration axis 2	
Cause	Current acceleration is outside the configured acceleration range	
Error correction	• The drive has exceeded the permissible acceleration range • Check configuration maximum speed • Analyze velocity / acceleration with SCOPE	

Alarm Code	A 3333 / A 3334	ECS
Alarm message	Plausibility error SinCos encoder	
Cause	Wrong sensor type connected	
Error correction	• Check configuration • Check sensor connector • Record and check sin/cos signals	

Alarm Code	A 3337 / A3338	ECS
Alarm message	Incremental encoder axis 2 incorrect	
Cause	• Track A does not correspond to track B	
Error correction	• Check sensor wiring • Check sensor configuration • Check and record encoder signals	

Alarm Code	A 3407 / A 3408	ECS
Alarm message	Difference level RS485 driver 1 fault (X31) A3407: TTL track B or SSI CLK A3408: TTL track A or SSI DATA	
Cause	• No encoder connection • Wrong encoder type connected	
Error correction	• Control the encoder connection • Check the encoder wiring	

Alarm Code	A 3409 / A 3410	ECS
Alarm message	Difference level RS485 driver fault (X32). A3409: TTL Signal B or SSI CLK A3410: TTL Signal A or SSI DATA	
Cause	• No encoder connection • Wrong encoder type connected	
Error correction	• Control the encoder connection • Check the encoder wiring	

Alarm Code	A 3411 / A 3412	ECS
Alarm message	Plausibility error Sinus/Cosinus X31	
Cause	• Plausibility monitoring of detached line faulty	
Error correction	• 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	ECS
Alarm message	Plausibility error Sinus/Cosinus X32	
Cause	• Plausibility monitoring of detached line faulty	
Error correction	• Check sensor wiring • Sinus to Cosinus must be linear • Attenuation on Sin/Cos lines too big • Interference on Sin/Cos lines	

Alarm Code	A 3415 / A 3416	ECS
Alarm message	Proxy counter plausibility fault.	
Cause	Difference level monitoring on proxy switch lines failed.	
Error correction	• Check sensor wiring • Check phase shift on sensor lines • Check maximum counter frequency (see Installation Manual)	

Alarm Code	A 3417 / A 3418	ECS
Alarm message	CLK error number for SSI listener 1st axis	
Cause	• Plausibility monitoring of the number of configured CLK's	
Error correction	• Check encoder wiring • Check SSI Master configuration • Configured number of clocks has to match physical clocks from SSI master • The mono flop time must be greater than 40 µs	

Alarm Code	A 3419 / A 3420	ECS
Alarm message	CLK error number for SSI listener 2nd axis	
Cause	• Plausibility monitoring of the number of configured CLK's	
Error correction	• Check encoder wiring • Check SSI Master configuration • Configured number of clocks has to match physical clocks from SSI master • The mono flop time must be greater than 40 µs	

Alarm Code	A 3451 / A 3452	ECS
Alarm message	Incorrect resolver frequency	
Cause	• Resolver frequency is outside of admissible range. • Error of excitation frequency of resolver.	
Error correction	• Check resolver frequency if it is in the admissible range. • Check encoder wiring • Power reset	

Alarm Code	A 3453 / A 3454	ECS
Alarm message	Arithmetic mean value of resolver reference signal is out of range	
Cause	• Mean value of reference signal of resolver is outside of the admissible range.	
Error correction	• 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	ECS
Alarm message	Generic PIC error	
Cause	• HW error on the extension board • PIC controller reported generic error	
Error correction	• Check the encoder wiring on X33/X34 • Check the settings for encoder X33/X34 • Power Reset • Replace Device	

Alarm Code	A 3457 / A 3458	ECS
Alarm message	Encoder reference voltage on extension board X33/X34 is incorrect (U_REF monitoring)	
Cause	• Wrong encoder wiring • HW error on extension board	
Error correction	• Check the encoder wiring on X33/X34 • Check the settings for encoder X33/X34 • Power Reset • Replace Device	

Alarm Code	A 3459 / A 3460	ECS
Alarm message	The amplitude of the Sinus/Cosinus signals is out of range	
Cause	• Incorrect configuration of sensor • Incorrect connection of encoder • Wrong encoder signals • Interference on encoder signals	
Error correction	• Check sensor configuration • Check connections of sensors • Record encoder signals • Check EMC guidelines • Power Reset	

Alarm Code	A 3461 / A 3462	ECS
Alarm message	The PIC reports a general status error, e.g. during connection establishment or because a timeout during processing has occurred.	
Cause	• Wrong encoder signals • Defect RS485 encoder driver	
Error correction	• Power cycle of device • Check encoder signals on X33/X34 • Check encoder wiring on X33/X34 • Replace device	

Alarm Code	A 3463 / A 3464	ECS
Alarm message	Plausibility check between the analogue sine signal and the TTL levels on the Schmitt trigger output do not correspond.	
Cause	• Wrong encoder signals • Defect RS485 encoder driver	
Error correction	• 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 / A 3466	ECS
Alarm message	The quotient of arithmetic mean value / quadratic mean value is outside of the admissible range.	
Cause	• Incorrect signals from sensor	
Error correction	• Check encoder signals on X33/X34 • Check encoder wiring on X33/X34 • Record and analyse the encoder signals	

Alarm Code	A 3467 / A 3468	ECS
Alarm message	Connection establishment between CPU and PIC has failed.	
Cause	• Incorrect Encoder signals • Hardware defect on X33/X34	
Error correction	• Check extension board • Check encoder input level on X33/X34 • Power Cycke • Replace device	

Alarm Code	A 3469 / A 3470	ECS
Alarm message	Resolver_Quadrant	
Cause	• Incorrect sensor signals from encoder	
Error correction	• Check the encoder connection • Check the encoder signals • Power Cycle	

Alarm Code	A 3471 / A 3472	ECS
Alarm message	Resolver_UENC	
Cause	• Encoder supply voltage is not connected • Wrong encoder supply voltage configured	
Error correction	• 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 / A 3474	ECS
Alarm message	TTL/HTL signal incorrect	
Cause	• Incorrect sensor signal from encoder	
Error correction	• Check the encoder connection • Check the encoder signals • Power Cycle	

Alarm Code	A 3475 / A 3476	ECS
Alarm message	Resolver_TRACE Error	
Cause	• Counter signals of encoder are incorrect	
Error correction	• Check the encoder connection X33/X34 • Check the encoder signals • Check extension board • Power Cycle	

Alarm Code	A 3477 / A 3478	ECS
Alarm message	SSI clock error	
Cause	• Plausibility check SSI Clock (Clock missing) • Wrong clock signals on SSI Listener • SSI mono flop time out of range	
Error correction	• Clock Signal Check • Check cables • Check the configuration of the SSI Master • Record and check the SSI Signals	

Alarm Code	A 3551 / A 3552	ECS
Alarm message	SSI_ECE STATUS 1. axis SSI ext encoder	
Cause	• Analysis of 1. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3553 / A 3554	ECS
Alarm message	SSI_ECE STATUS 1. axis SSI ext encoder	
Cause	• Analysis of 2. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3555 / A 3556	ECS
Alarm message	SSI_ECE STATUS 1. axis SSI ext encoder	
Cause	• Analysis of 3. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3557 / A 3558	ECS
Alarm message	SSI_ECE STATUS 1. axis SSI ext encoder	
Cause	• Analysis of 4. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3559 / A 3560	ECS
Alarm message	SSI_ECE STATUS 1. axis SSI ext encoder	
Cause	• Analysis of 5. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3561 / A 3562	ECS
Alarm message	SSI_ECE STATUS 2. axis SSI ext encoder	
Cause	• Analysis of 1. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3563 / A 3564	ECS
Alarm message	SSI_ECE STATUS 2. axis SSI ext encoder	
Cause	• Analysis of 2. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3565 / A 3566	ECS
Alarm message	SSI_ECE STATUS 2. axis SSI ext encoder	
Cause	• Analysis of 3. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3567 / A 3568	ECS
Alarm message	SSI_ECE STATUS 2. axis SSI ext encoder	
Cause	• Analysis of 4. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3569 / A 3570	ECS
Alarm message	SSI_ECE STATUS 2. axis SSI ext encoder	
Cause	• Analysis of 5. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3571 / A3572	ECS
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	• Analysis of 1. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3573 / A3574	ECS
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	• Analysis of 2. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3575 / A3576	ECS
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	• Analysis of 3. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3577 / A3578	ECS
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	• Analysis of 4. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3579 / A3580	ECS
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	• Analysis of 5. status bit is incorrect	
Error correction	• Check the encoder connection • Check the encoder signals • Check the meaning of the error bit in the encoder manual • Exchange the SSI encoder	

Alarm Code	A 3627 / A 3628
Alarm message	Error static test Highside output 1
Cause	Faulty switching of the output • Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring of the output (short-circuit) • Checking the Hardware

Alarm Code	A 3629 / A 3630
Alarm message	Error static test Highside output 2
Cause	Faulty switching of the output • Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring of the output (short-circuit) • Checking the Hardware

Alarm Code	A 3631 / A 3632
Alarm message	Error static test Highside output 3
Cause	Faulty switching of the output • Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring of the output (short-circuit) • Checking the Hardware

Alarm Code	A 3633 / A 3634
Alarm message	Error static test Highside output 4
Cause	Faulty switching of the output • Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring of the output (short-circuit) • Checking the Hardware

Alarm Code	A 3635 / A 3636
Alarm message	Error static test Main Switch 1 High Side outputs 1 and 2
Cause	• Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring (short circuit) • Checking the Hardware

Alarm Code	A 3637 / A 3638
Alarm message	Error static test Main Switch 2 High Side outputs 3 and 4
Cause	• Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring (short circuit) • Checking the Hardware

Alarm Code	A 3653 / A 3654
Alarm message	Error dynamic test Main Switch 1 High Side outputs 1 and 2
Cause	• Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring (short circuit) • Checking the Hardware

Alarm Code	A 3655 / A 3656
Alarm message	Error dynamic test Main Switch 2 High Side outputs 3 and 4
Cause	• Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring (short circuit) • Checking the Hardware

Alarm Code	A 3657 / A 3658
Alarm message	Error dynamic test HighSide 1
Cause	• Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring (short circuit) • Checking the Hardware

Alarm Code	A 3659 / A 3660
Alarm message	Error dynamic test HighSide 2
Cause	• Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring (short circuit) • Checking the Hardware

Alarm Code	A 3661 / A 3662
Alarm message	Error dynamic test HighSide 3
Cause	• Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring (short circuit) • Checking the Hardware

Alarm Code	A 3663 / A 3664
Alarm message	Error dynamic test HighSide 4
Cause	• Incorrect wiring (short circuit) • Hardware defect
Error correction	• Check the wiring (short circuit) • Checking the Hardware

Alarm Code	A 3801 / A3802
Alarm message	Incorrect switching of output IOx.1
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check the wiring of the outputs on extension device • Power cycle

Alarm Code	A 3803 / A3804
Alarm message	Incorrect switching of output IOx.2
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check the wiring of the outputs on extension device • Power cycle

Alarm Code	A 3805 / A3806
Alarm message	Incorrect switching of output IOx.3
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check the wiring of the outputs on extension device • Power cycle

Alarm Code	A 3807 / A3808
Alarm message	Incorrect switching of output IOx.4
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check the wiring of the outputs on extension device • Power cycle

Alarm Code	A 3809 / A3810
Alarm message	Incorrect switching of output IOx.5
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check the wiring of the outputs on extension device • Power cycle

Alarm Code	A 3811 / A3812
Alarm message	Incorrect switching of output IOx.6
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check the wiring of the outputs on extension device • Power cycle

Alarm Code	A 3813 / A3814
Alarm message	Incorrect switching of output IOx.7
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check the wiring of the outputs on extension device • Power cycle

Alarm Code	A 3815 / A3816
Alarm message	Incorrect switching of output IOx.8
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check the wiring of the outputs on extension device • Power cycle

Alarm Code	A 3817 / A3818
Alarm message	Incorrect switching of output IOx.9
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check the wiring of the outputs on extension device • Power cycle

Alarm Code	A 3819 / A3820
Alarm message	Incorrect switching of output IOx.10
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• 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
Error correction	• 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
Error correction	• 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 4601 / A 4602
Alarm message	Monitoring range left and right of SLP1 has been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP1 are activated simultaneously
Error correction	• 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 has been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP2 are activated simultaneously
Error correction	• 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	SLP1 Teach In status error
Cause	SET and QUIT input have an incorrect switching sequence
Error correction	• Check input configuration • Check switching sequence

Alarm Code	A 4607 / A 4608
Alarm message	SLP 2 Teach In status error
Cause	SET and QUIT input have an incorrect switching sequence
Error correction	• Check input configuration • Check switching sequence

Alarm Code	A 4609 / A 4610
Alarm message	SLP1 Teach In position error
Cause	Teach In position outside of measurement range
Error correction	• Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4611 / A 4612
Alarm message	SLP2 Teach In position error
Cause	Teach In position outside of measurement range
Error correction	• Check TeachIn Position • Adapt configuration of SLP block to the real physics

Alarm Code	A 4613 / A 4614
Alarm message	SLP1 Teach In SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Error correction	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4615 / A 4616
Alarm message	SLP 2 Teach In SOS activation error
Cause	During „teach in“ the drive has operated (SOS error)
Error correction	When using the „teach in“ function, the drive must be off Check whether SOS has already actuated

Alarm Code	A 4801 / A 4802
Alarm message	PRF deviation Encoder 1
Cause	The PRF leveling was done outside of a valid range.
Error correction	• Review of the physically measured and parameterized PRF positions • Careful increasing the PRF tolerance • Check the wiring of contact for PRF Enable

Alarm Code	A 4803 / A 4804
Alarm message	PRF deviation Encoder 2
Cause	The PRF leveling was done outside of a valid range.
Error correction	• Review of the physically measured and parameterized PRF positions • Careful increasing the PRF tolerance • Check the wiring of contact for PRF Enable

Alarm Code	A 4901 / A 4902
Alarm message	Anticlockwise and clockwise rotation SLI1 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI2 are activated simultaneously
Error correction	• 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	Anticlockwise and clockwise rotation SLI2 have been activated simultaneously
Cause	Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLI2 are activated simultaneously
Error correction	• 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 5001 / A 5002	ICS
Alarm message	Test deactivation digital inputs 1...14 incorrect	
Cause	Inputs are still active after deactivation	
Error correction	• Check wiring of digital inputs • Power Cycle • Replace device	

Alarm Code	A 6701 / A 6702	ICS
Alarm message	Timeout fault MET	
Cause	• Input unit with time supervision faulty	
Error correction	• 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	• Two hand control unit with time supervision faulty
Error correction	• Check the wiring of the input unit • Check the type of the Input element • Input element faulty

Alarm Code	A 7403 / A 7404
Alarm message	Overrun/Underrung process data transmission to F-Bus
Cause	The data to be transferred through a connected F-Bus is out of bounds. The resulting process data (Speed or Position) reaches more necessary bits than configured
Error correction	• Increase the resolution for these parameters (16 Bit instead of 8 or 24 instead of 16) • Apply a scaling factor

3. Fatal Error List

Fatal Error Code	F 1001
Error message	Configuration data were loaded faultily into the supervision device
Cause	• Connection fault during the download of the program • Transmission of wrong or incomplete binary file
Error correction	• Send configuration data again • Check tooling connection • Power Cycle

Fatal Error Code	F 1003
Error message	Configuration data for software version assembly group invalid!
Cause	Assembly group has been configured with a wrong software version of the programming interface.
Error correction	• Check FW Version and Version of the application software • Configured device with released application software • Power Cycle

Fatal Error Code	F 1007
Error message	Configured device ID does not match physical device.
Cause	• A wrong device type was selected during programming • Binary data from different device type were used to send
Error correction	• 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	• A wrong device type was selected during programming • Binary data from different device type were used to send
Error correction	• 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	-
Error correction	• 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	-
Error correction	• 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	-
Error correction	• 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	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 1401 / F 1402
Error message	Test counter CRC config data
Cause	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 1403 / F 1404
Error message	CRC of configuration data invalid!
Cause	Configuration data transmitted incorrectly
Error correction	• 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	-
Error correction	• Send the configuration again • Power Cycle • Replace device

Fatal Error Code	F 1407 / F 1408
Error message	Config identifier not supported by hardware
Cause	• Programming software does not support connected hardware • Error transmitting configuration
Error correction	• 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	Wrong PRF CRC No PRF data found while PRF supervision function is configured
Cause	• PRF table was not sent to device • PRF table still marked as used inside configuration • PRF remains active when importing old JetSafe application layout
Error correction	• Insert PRF X/Y Position table in function plan, then delete them and compile again • Re-Transmit configuration to device (including PRF position tables if used) • Power Cycle

Fatal Error Code	F 1411 / F 1412
Error message	Wrong PDF CRC No PDF data found while PRF supervision function is configured
Cause	• PDF data was not sent to device • PDF data are not updated
Error correction	• Re-Transmit configuration to device including PDF data • Power Cycle

Fatal Error Code	F 1501 / F 1502
Error message	Firmware parameter CRC test counter
Cause	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 1503 / F 1504
Error message	Wrong firmware parameter CRC
Cause	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 1505 / F 1506
Error message	Error while sending firmware parameter to CPU B
Cause	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 1601 / F 1602
Error message	Range check of device information incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1603 / F 1604
Error message	Range check of access data incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1605 / F 1606
Error message	Range check of EMU incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1607 / F 1608
Error message	Range check of SCA incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1609 / F 1610
Error message	Range check of SSX incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1611 / F 1612
Error message	Range check of SEL incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1613 / F 1614
Error message	Range check of SLP incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1615 / F 1616
Error message	Range check of SOS incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1617 / F 1618
Error message	Range check of SLS incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1619 / F 1620
Error message	Range check of SDI incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1621 / F 1622
Error message	Range check of SLI incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1623 / F 1624
Error message	Range check of PLC incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1625 / F 1626
Error message	Range check of switch off channel incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1627 / F 1628
Error message	Range check of outputs incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1629 / F 1630
Error message	Range check of digital inputs incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1631 / F 1632
Error message	Range check of analogue input
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1633 / F 1634
Error message	Range check of sensor type incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1635 / F 1636
Error message	Range check of sensor processing incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1637 / F 1638
Error message	Range check of sensor position incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1639 / F 1640
Error message	Range check of PDM incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1641 / F 1642
Error message	Range check of adder switching incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1645 / F 1646
Error message	Range check of axis management incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1647 / F 1648
Error message	Range check of expansion assembly groups incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1649 / F 1650
Error message	Range check of PLC timer incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1651 / F 1652
Error message	Range check of system incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1653 / F 1654
Error message	Range check of connection table incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1655 / F 1656
Error message	Range check of SAC incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1657 / F 1658
Error message	Range check of diagnosis incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1659 / F 1660
Error message	Range check of FBus incorrect.
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1661 / F 1662
Error message	Range check FBus
Cause	• Incompatible application software • Error when importing old layout on new application software
Error correction	• 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 1671 / F 1672
Error message	Range check PRF void
Cause	No PRF reference table is present even though configuration PRF function used on the device.
Error correction	• Send PRF position table to device • Insert X/Y position tables and PRF function, then delete the inserted PRF block and position tables again (if not used) • Re-transmit configuration to device

Fatal Error Code	F 1673 / F 1674
Error message	Range check PRF sorting
Cause	Entries inside PRF position table are not sorted ascending
Error correction	• Check PRF X/Y tables for ascending positions • Re-transmit configuration to device

Fatal Error Code	F 1675 / F 1676
Error message	Range check PRF steps
Cause	The distances of the reference table are too small. Should be: Table [n] - Table [n-1] > Switch-off position
Error correction	• Check PRF X/Y tables to meet requirement • Re-transmit configuration to device

Fatal Error Code	F 1677 / F 1678
Error message	Range check PRF tolerance
Cause	The PRF tolerance threshold is too large. Should be: PRF tolerance < switch-off threshold position / 2
Error correction	• Check PRF X/Y tables to meet requirement • Re-transmit configuration to device

Fatal Error Code	F 1681 / F 1682
Error message	Empty PDF table
Cause	PDF table configured but no data available
Error correction	Enter data in PDF table

Fatal Error Code	F 1683 / F 1684
Error message	Wrong CRC for PDF table
Cause	PDF table not updated
Error correction	Re-transmission of configuration including PDF table

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
Error correction	• 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
Error correction	• 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
Error correction	• 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
Error correction	• 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
Error correction	• Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 2011
Error message	Timeout synchronisation cycle start
Cause	-
Error correction	• Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 3001 / F 3002
Error message	Ticker sync error
Cause	-
Error correction	• Check wiring on device • Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 3201 / F 3202
Error message	Processor voltage 2.5V outside of defined range
Cause	• Supply voltage of assembly group incorrect! • Component error in assembly group
Error correction	• Check device supply voltage! • Check output wiring and connection of device • Switch off/on device.

Fatal Error Code	F 3203
Error message	Supply voltage 24V assembly group incorrect.
Cause	• Supply voltage of assembly group incorrect! • Component error in assembly group
Error correction	• Check device supply voltage! • Check output wiring and connection of device • Switch off/on device.

Fatal Error Code	F 3204
Error message	Internal supply voltage 5.7V incorrect.
Cause	• Supply voltage of assembly group incorrect! • Component error in assembly group
Error correction	• Check device supply voltage! • Check output wiring and connection of device • Switch off/on device.

Fatal Error Code	F 3217 / F 3218
Error message	Internal supply voltage 5V incorrect.
Cause	• Supply voltage of assembly group incorrect! • Component error in assembly group
Error correction	• Check device supply voltage! • Check output wiring and connection of device • Switch off/on device.

Fatal Error Code	F 3603 / F 3604
Error message	Incorrect switching of relay K1
Cause	Internal relay activation incorrect
Error correction	• Check output wiring of device • Check environmental conditions of device • Power Cycle • Replace Device

Fatal Error Code	F 3605 / F 3606
Error message	Incorrect switching of relay K2
Cause	Internal relay activation incorrect
Error correction	• Check output wiring of device • Check environmental conditions of device • Power Cycle • Replace Device

Fatal Error Code	F 3609
Error message	Incorrect switching of „0V“ driver DO1_L
Cause	Switching status output incorrect
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3610
Error message	Incorrect switching of „24V“ driver DO1_H
Cause	Switching status output incorrect
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3611
Error message	Incorrect switching of „0V“ driver DO2_L
Cause	Switching status output incorrect
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3612
Error message	Incorrect switching of „24V“ driver DO2_H
Cause	Switching status output incorrect
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3613
Error message	Incorrect testing of „0V“ driver DO1_L
Cause	Short circuit of output with „0V“
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3614
Error message	Incorrect testing of „24V“ driver DO1_H
Cause	Short circuit of output with „24V“
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3615
Error message	Incorrect testing of „0V“ driver DO2_L
Cause	Short circuit of output with „0V“
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3616
Error message	Incorrect testing of „24V“ driver DO2_H
Cause	Short circuit of output with „24V“
Error correction	• 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
Error correction	• 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
Error correction	• 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
Error correction	• 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
Error correction	• 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
Error correction	• 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
Error correction	• 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	• Wrong wiring on device • Short circuit
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3625 / F3626
Error message	Incorrect switching of output main switch
Cause	• Wrong wiring on device • Short circuit
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3665 / F3666
Error message	Error static test loss of ground HighSide 2
Cause	• Wrong wiring on device • Short circuit
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3667 / F3668
Error message	Error static test loss of ground HighSide 4
Cause	• Wrong wiring on device • Short circuit
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3669 / F3670
Error message	Error dynamic test loss of ground HighSide 2
Cause	• Wrong wiring on device • Short circuit
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3671 / F3672
Error message	Error dynamic test loss of ground HighSide 4
Cause	• Wrong wiring on device • Short circuit
Error correction	• Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device

Fatal Error Code	F 3701 / F 3702
Error message	Error comparing process images CPU A – CPU B
Cause	-
Error correction	• Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 3821 / F 3822
Error message	Incorrect switching of output IOx.1
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3823 / F 3824
Error message	Incorrect switching of output IOx.2
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3825 / F 3826
Error message	Incorrect switching of output IOx.3
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3827 / F 3828
Error message	Incorrect switching of output IOx.4
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3829 / F 3830
Error message	Incorrect switching of output IOx.5
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3831 / F 3832
Error message	Incorrect switching of output IOx.6
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3833 / F 3834
Error message	Incorrect switching of output IOx.7
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3835 / F 3836
Error message	Incorrect switching of output IOx.8
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3837 / F 3838
Error message	Incorrect switching of output IOx.9
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3839 / F 3840
Error message	Incorrect switching of output IOx.10
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3841 / F 3842
Error message	Incorrect testing of output IOx.1
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3843 / F 3844
Error message	Incorrect testing of output IOx.2
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3845 / F 3846
Error message	Incorrect testing of output IOx.3
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3847 / F 3848
Error message	Incorrect testing of output IOx.4
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3849 / F 3850
Error message	Incorrect testing of output IOx.5
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3851 / F 3852
Error message	Incorrect testing of output IOx.6
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3853 / F 3854
Error message	Incorrect testing of output IOx.7
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3855 / F 3856
Error message	Incorrect testing of output IOx.8
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3857 / F 3858
Error message	Incorrect testing of output IOx.9
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3859 / F 3860
Error message	Incorrect testing of output IOx.10
Cause	Short circuit of output with „24V“ or „0V“
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle

Fatal Error Code	F 3871 / F 3872
Error message	Incorrect switching of power main switch 1 for outputs on extension device
Cause	-
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle • Replace Device

Fatal Error Code	F 3873 / F 3874
Error message	Incorrect switching of power main switch 2 for outputs on extension device
Cause	-
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle • Replace Device

Fatal Error Code	F 3891 / F 3892
Error message	Incorrect switching of power main switch 1 for outputs on extension device
Cause	-
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle • Replace Device

Fatal Error Code	F 3893 / F 3894
Error message	Incorrect switching of power main switch 2 for outputs on extension device
Cause	-
Error correction	• Check wiring of the outputs • Check the wiring for short circuits • Power Cycle • Replace Device

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
Error correction	• Check monitored sector and stopping distance • Check SSX configuration • Contact manufacturer

Fatal Error Code	F 4701 / F 4702
Alarm message	Faulty SMF CRC
Cause	The registered CRC of the SMF data on the SD card does not match the calculated CRC
Error correction	• Resend the SMF data and configuration data to the module • Check the SD card • Power Cycle

Fatal Error Code	F 6801 / F 6802
Error message	Invalid PLC Op Code
Cause	-
Error correction	• 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	-
Error correction	• 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	-
Error correction	• 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	• Incompatible application software • On or more PLC timer values are not multiples of the cycle time (8ms)
Error correction	• 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	-
Error correction	• 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	-
Error correction	• 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	-
Error correction	• Check FW Version and Version of application software for compatibility • Re-transmit configuration • 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
Error correction	• 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	-
Error correction	• Re-transmit configuration to device • Power Cycle

Fatal Error Code	F 8213 / F 8214
Error message	Runtime overflow interrupt
Cause	-
Error correction	• 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
Error correction	• 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	-
Error correction	• Re-transmit configuration to device • Power Cycle

Fatal Error Code	F 8225
Error message	Ticker sync error
Cause	• Maximum runtime exceeded • Communication error with extension device (s)
Error correction	• 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
Error correction	• 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	-
Error correction	• Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 9007 / F 9008
Error message	CPU RAM test returned with error
Cause	-
Error correction	• Check EMC requirements • Power Cycle • Replace device

Fatal Error Code	F 9009 / F 9010
Error message	Firmware CRC mismatch
Cause	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 9011 / F 9012
Error message	Internal stack test returned with an error
Cause	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 9013 / F 9014
Error message	Error NVRAM test
Cause	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 9015 / F 9016
Error message	Error CPU RAM test
Cause	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 9017 / F 9018
Error message	Error CPU register test
Cause	-
Error correction	• Power Cycle • Replace device

Fatal Error Code	F 9019 / F 9020
Error message	Switch default
Cause	-
Error correction	• Power Cycle • Replace device