

## Error list

<b>System:</b>	37500 SCU
<b>Document:</b>	Error list SCU – SDU modules
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## 1 General




### 1.1 Technical status

This error list is valid for all SDU devices of the SCU series up to and including:

Firmware Version <b>05-00-06-49</b>
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### 1.2 Error types

The SDU 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 SDU. 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 SDU(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 parametrizable 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 parametrizable input

Identification of the errors in System A and System B:

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

### 1.3 Display of the error types

The error number is shown on the 7-segment display on the front of the module. There are two sequences for displaying error numbers.

Device without expansion assembly groups

F,  $\overline{A}$  or E      $\overline{\text{Error number}}$

Device with expansion assembly groups

F,  $\overline{A}$  or E     1)  $\overline{\text{Error number}}$


Note 1) 0: Basic assembly group  
 1: expansion assembly group with logical address 1  
 2: expansion assembly group with logical address 2

### 1.4 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

<b>Alarm Code</b>	<b>A 1212</b>
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
Error correction	<ul style="list-style-type: none"> <li>• Double-Press the reset button to store the application program on the device.</li> <li>• Remove the SD card if you do not want to change the application</li> </ul>

<b>Alarm Code</b>	<b>A 2101 / A 2102</b>
Alarm message	Timeout receipt telegram io expansions (address 1)
Cause	Telegram of expansion assembly group not received in time
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2105 / A 2106</b>
Alarm message	CRC error transmission telegram io expansions (address 1)
Cause	Transmission telegram incorrect
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2107 / A 2108</b>
Alarm message	CRC error transmission telegram
Cause	Transmission telegram incorrect
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2109 / A 2110</b>
Alarm message	CRC error receipt telegram
Cause	Receipt telegram incorrect
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2111</b>
Alarm message	Timeout communication with io expansion assembly group (address 1)
Cause	Incorrect Installation of expansion assembly group
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2113</b>
Alarm message	IO Expansion assembly group (address 1) existing but not configured
Cause	Incorrect configuration
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2115 / A2116</b>
Alarm message	IO Expansion assembly group has incorrect logical address
Cause	Incorrect configuration
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2121 / A 2122</b>
Alarm message	Timeout receipt telegram io expansions (address 2)
Cause	Telegram of expansion assembly group not received in time
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2125 / A 2126</b>
Alarm message	CRC error transmission telegram io expansions (address 2)
Cause	Transmission telegram incorrect
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2131</b>
Alarm message	Timeout communication with io expansion assembly group (address 2)
Cause	Incorrect installation of expansion assembly group
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2133</b>
Alarm message	IO Expansion assembly group (address 2) existing but not configured
Cause	Incorrect configuration
Error correction	<ul style="list-style-type: none"> <li>• Check configuration of extension devices</li> <li>• Check physical connection to extension devices</li> <li>• Check address switch on extension devices</li> <li>• Power Cycle of all connected devices</li> </ul>

<b>Alarm Code</b>	<b>A 2135 / A 2136</b>
Alarm message	Timeout reading functional inputs
Cause	<ul style="list-style-type: none"> <li>• Incorrect configuration</li> <li>• CAN telegram not received in time</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check configuration (CAN ID)</li> <li>• Check transmission time (Timeout)</li> </ul>

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

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

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

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

<b>Alarm Code</b>	<b>A 3031 / A 3032</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.1
Cause	This input does not have the configured Pulse1 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3033 / A 3034</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.1
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3035 / A 3036</b>
Alarm message	Incorrect 24V signal on EAEx.1
Cause	The input does not have a permanent 24V voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check voltage on digital input!</li> <li>• Check wiring</li> <li>• Check whether Pulse1 or Pulse2 is active</li> </ul>

<b>Alarm Code</b>	<b>A 3037 / A 3038</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.2
Cause	This input does not have the configured Pulse1 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3039 / A 3040</b>
Alarm message	Pulse2 plausibility error on expanding input EAEx.2
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>



<b>Alarm Code</b>	<b>A 3041 / A 3042</b>
Alarm message	Faulty 24V signal on EAEx.2
Cause	The input does not have a permanent 24V voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check voltage on digital input!</li> <li>• Check wiring</li> <li>• Check whether Pulse1 or Pulse2 is active</li> </ul>

<b>Alarm Code</b>	<b>A 3043 / A 3044</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.3
Cause	This input does not have the configured Pulse1 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3045 / A 3046</b>
Alarm message	Pulse2 plausibility error on expanding input EAEx.3
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3047 / A 3048</b>
Alarm message	Incorrect 24V signal on EAEx.3
Cause	The input does not have a permanent 24V voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check voltage on digital input!</li> <li>• Check wiring</li> <li>• Check whether Pulse1 or Pulse2 is active</li> </ul>

<b>Alarm Code</b>	<b>A 3049 / A 3050</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.4
Cause	This input does not have the configured Pulse1 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3051 / A 3052</b>
Alarm message	Pulse2 plausibility error on expanding input EAEx.4
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3053 / A 3054</b>
Alarm message	Incorrect 24V signal on EEx.4
Cause	The input does not have a permanent 24V voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check voltage on digital input!</li> <li>• Check wiring</li> <li>• Check whether Pulse1 or Pulse2 is active</li> </ul>

<b>Alarm Code</b>	<b>A 3055 / A 3056</b>
Alarm message	Pulse1 plausibility error on expanding input EEx.5
Cause	This input does not have the configured Pulse1 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3057 / A 3058</b>
Alarm message	Pulse2 plausibility error on expanding input EEx.5
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3059 / A 3060</b>
Alarm message	Incorrect 24V signal on EEx.5
Cause	The input does not have a permanent 24V voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check voltage on digital input!</li> <li>• Check wiring</li> <li>• Check whether Pulse1 or Pulse2 is active</li> </ul>

<b>Alarm Code</b>	<b>A 3061 / A 3062</b>
Alarm message	Pulse1 plausibility error on expanding input EEx.6
Cause	This input does not have the configured Pulse1 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3063 / A 3064</b>
Alarm message	Pulse2 plausibility error on expanding input EEx.6
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3065 / A 3066</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.7
Cause	This input does not have the configured Pulse1 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3067 / A 3068</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.7
Cause	This input does not have the configured Pulse1 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3069 / A 3070</b>
Alarm message	Pulse2 plausibility error on expanding input EAEx.7
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3071 / A 3072</b>
Alarm message	Incorrect 24V signal on EAEx.7
Cause	The input does not have a permanent 24V voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check voltage on digital input!</li> <li>• Check wiring</li> <li>• Check whether Pulse1 or Pulse2 is active</li> </ul>

<b>Alarm Code</b>	<b>A 3073 / A 3074</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.8
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3075 / A 3076</b>
Alarm message	Pulse2 plausibility error on expanding input EAEx.8
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3077 / A 3078</b>
Alarm message	Incorrect 24V signal on EAEx.8
Cause	The input does not have a permanent 24V voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check voltage on digital input!</li> <li>• Check wiring</li> <li>• Check whether Pulse1 or Pulse2 is active</li> </ul>

<b>Alarm Code</b>	<b>A 3079 / A 3080</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.9
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3081 / A 3082</b>
Alarm message	Pulse2 plausibility error on expanding input EAEx.9
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3083 / A 3084</b>
Alarm message	Incorrect 24V signal on EAEx.9
Cause	The input does not have a permanent 24V voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check voltage on digital input!</li> <li>• Check wiring</li> <li>• Check whether Pulse1 or Pulse2 is active</li> </ul>

<b>Alarm Code</b>	<b>A 3085 / A 3086</b>
Alarm message	Pulse1 plausibility error on expanding input EAEx.10
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3087 / A 3088</b>
Alarm message	Pulse2 plausibility error on expanding input EAEx.10
Cause	This input does not have the configured Pulse2 voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>

<b>Alarm Code</b>	<b>A 3089 / A 3090</b>
Alarm message	Faulty 24V signal on EAEx.10
Cause	The input does not have a permanent 24V voltage.
Error correction	<ul style="list-style-type: none"> <li>• Check voltage on digital input!</li> <li>• Check wiring</li> <li>• Check whether Pulse1 or Pulse2 is active</li> </ul>

<b>Alarm Code</b>	<b>A 3101 / A 3102</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI1	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3103 / A 3104</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI2	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3105 / A 3106</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI3	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3107 / A 3108</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI4	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3109 / A 3110</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI5	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3111 / A 3112</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI6	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3113 / A 3114</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI7	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3115 / A 3116</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI8	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3117 / A 3118</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input DI1	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3119 / A 3120</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input DI2	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3121 / A 3122</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input DI3	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3123 / A 3124</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input DI4	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3125 / A 3126</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input DI5	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3127 / A 3128</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input DI6	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3129 / A 3130</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input DI7	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3131 / A 3132</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input DI8	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3133 / A 3134</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI9	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3135 / A 3136</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI10	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3137 / A 3138</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI11	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3139 / A 3140</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input DI12	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3141 / A 3142</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input D113	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3143 / A 3144</b>	<b>ICS</b>
Alarm message	Pulse1 plausibility error on input D114	
Cause	This input does not have the configured Pulse1 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3147 / A 3148</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input D19	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3149 / A 3150</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input D110	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3151 / A 3152</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input D111	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3153 / A 3154</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input D112	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3155 / A 3156</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input D113	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	



<b>Alarm Code</b>	<b>A 3157 / A 3158</b>	<b>ICS</b>
Alarm message	Pulse2 plausibility error on input DI14	
Cause	This input does not have the configured Pulse2 voltage.	
Error correction	<ul style="list-style-type: none"> <li>• Check the configuration of the digital input according to projection and circuit diagram</li> <li>• Check wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3191 / A 3192</b>	<b>ICS</b>
Alarm message	Short circuit error digital inputs	
Cause	Short circuit between the digital inputs within the assembly group	
Error correction	<ul style="list-style-type: none"> <li>• Power Reset</li> <li>• Check degree of pollution of device</li> <li>• Check external wiring</li> <li>• Replace device</li> </ul>	

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

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

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

<b>Alarm Code</b>	<b>A 3225 / A 3226</b>	<b>ACS</b>
Alarm message	Deviation AIN1 compared to AIN2 too big	
Cause	<ul style="list-style-type: none"> <li>• Voltage difference on both analog sensors of analog input 1</li> <li>• Configured threshold too low</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check voltages on X25</li> <li>• Check configuration threshold/input filter</li> <li>• Switch off/on device</li> </ul>	

<b>Alarm Code</b>	<b>A 3227 / A 3228</b>	<b>ACS</b>
Alarm message	Deviation AIN3 compared to AIN4 too big	
Cause	<ul style="list-style-type: none"> <li>• Voltage difference on both analog sensors of analog input 2</li> <li>• Configured threshold too low</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check voltages on X26</li> <li>• Check configuration threshold/input filter</li> <li>• Switch off/on device</li> </ul>	

<b>Alarm Code</b>	<b>A 3229 / A 3230</b>	<b>ECS</b>
Alarm message	Plausibility error sensor voltage incorrect	
Cause	<ul style="list-style-type: none"> <li>• Sensor voltage value</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check sensor voltage supply</li> <li>• Check wiring of sensor voltage supply</li> <li>• Power Cycle</li> </ul>	

<b>Alarm Code</b>	<b>A 3231 / A 3232</b>	<b>ACS</b>
Alarm message	Plausibility error analog inputs incorrect	
Cause	<ul style="list-style-type: none"> <li>• Error in the analog input signal</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check connection analog inputs</li> <li>• Analogue input voltage outside of range</li> </ul>	

<b>Alarm Code</b>	<b>A 3233 / A 3234</b>	<b>ACS</b>
Alarm message	Wire breakage monitoring AIN1 actuated	
Cause	<ul style="list-style-type: none"> <li>• Wire breakage monitoring activated (&lt; 1000mV)</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check configuration activation/sensor</li> <li>• Check sensor connection</li> </ul>	

<b>Alarm Code</b>	<b>A 3235 / A 3236</b>	<b>ACS</b>
Alarm message	Wire breakage monitoring AIN2 actuated	
Cause	<ul style="list-style-type: none"> <li>• Wire breakage monitoring activated (&lt; 1000mV)</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check configuration activation/sensor</li> <li>• Check sensor connection</li> </ul>	

<b>Alarm Code</b>	<b>A 3237 / A 3238</b>	<b>ACS</b>
Alarm message	Analog sensor monitoring test AIN1 has triggered	
Cause	<ul style="list-style-type: none"> <li>• Faulty analog sensor</li> <li>• Configured test duration is too short for the response time of the sensor's bridge circuit</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Configuration Activation / sensor check</li> <li>• Check the sensor connection</li> </ul>	

<b>Alarm Code</b>	<b>A 3239 / A 3240</b>	<b>ACS</b>
Alarm message	Analog sensor monitoring test AIN2 has triggered	
Cause	<ul style="list-style-type: none"> <li>• Faulty analog sensor</li> <li>• Configured test duration is too short for the response time of the sensor's bridge circuit</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Configuration Activation / sensor check</li> <li>• Check the sensor connection</li> </ul>	

<b>Alarm Code</b>	<b>A 3301 / A 3302</b>	<b>ECS</b>
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	<ul style="list-style-type: none"> <li>• Check the theory of the distance by comparing the data in the configuration of the sensors.</li> <li>• Check the signals of the speed sensor</li> <li>• Check the correct wiring on the 9-pin encoder plug</li> <li>• Analyze the speed signals using the scope function</li> <li>• Check the parameterization of the axis (Resolution, Direction, Cutoff Threshold Speed, Filter)</li> <li>• Check the track for slippage or speed deviations</li> </ul>	

<b>Alarm Code</b>	<b>A 3303 / A 3304</b>	<b>ECS</b>
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	<ul style="list-style-type: none"> <li>• Check the theory of the distance by comparing the data in the configuration of the sensors.</li> <li>• Check the signals of the position sensor</li> <li>• Check the correct wiring on the 9-pin encoder plug</li> <li>• Analyze the position signals using the scope function</li> <li>• Check the parameterization of the axis (Resolution, Direction, Cutoff Threshold Speed, Filter)</li> </ul>	

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

<b>Alarm Code</b>	<b>A 3309 / A 3310</b>	<b>ECS</b>
Alarm message	Plausibility error incorrect speed axis 1	
Cause	<ul style="list-style-type: none"> <li>• The current speed is outside of the configured maximal speed</li> <li>• The drive is moving above the allowed maximum speed</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check configuration.</li> <li>• Analyze the speed course via SCOPE</li> <li>• Check the driveway for speed deviations</li> <li>• Check absolute encoders for position discontinuity if applicable</li> </ul>	

<b>Alarm Code</b>	<b>A 3313 / A 3314</b>	<b>ECS</b>
Alarm message	SSI sensor error	
Cause	<ul style="list-style-type: none"> <li>• Sensor switch SSI value too large within a cycle</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check sensor wiring</li> <li>• Check sensor configuration</li> </ul>	

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

<b>Alarm Code</b>	<b>A 3321 / A 3322</b>	<b>ECS</b>
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	<ul style="list-style-type: none"> <li>• Check the theory of the distance by comparing the data in the configuration of the sensors.</li> <li>• Check the signals of the speed sensor</li> <li>• Check the correct wiring on the 9-pin encoder plug</li> <li>• Analyze the speed signals using the scope function</li> <li>• Check the parameterization of the axis (Resolution, Direction, Cutoff Threshold Speed, Filter)</li> <li>• Check the track for slippage or speed deviations</li> </ul>	

<b>Alarm Code</b>	<b>A 3323 / A 3324</b>	<b>ECS</b>
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	<ul style="list-style-type: none"> <li>• Check the theory of the distance by comparing the data in the configuration of the sensors.</li> <li>• Check the signals of the position sensor</li> <li>• Check the correct wiring on the 9-pin encoder plug</li> <li>• Analyze the position signals using the scope function</li> <li>• Check the parameterization of the axis (Resolution, Direction, Cutoff Threshold Speed, Filter)</li> </ul>	

<b>Alarm Code</b>	<b>A 3327 / A 3328</b>	<b>ECS</b>
Alarm message	Plausibility error incorrect position range axis 2	
Cause	The current position is outside of the configured measuring length	
Error correction	<ul style="list-style-type: none"> <li>• Check the theory of the distance by comparing the data configured in the sensor adjustment</li> <li>• Check position signal, if applicable, correct offset</li> <li>• Manually drive to the preset position and execute preset</li> </ul>	

<b>Alarm Code</b>	<b>A 3329 / A 3330</b>	<b>ECS</b>
Alarm message	Plausibility error incorrect speed axis 2	
Cause	<ul style="list-style-type: none"> <li>The current speed is outside of the configured maximal speed</li> <li>The drive is moving above the allowed maximum speed</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check configuration.</li> <li>Analyse the speed course via SCOPE</li> <li>Check the driveway for speed deviations</li> <li>Check absolute encoders for position discontinuity if applicable</li> </ul>	

<b>Alarm Code</b>	<b>A 3331 / A 3332</b>	<b>ECS</b>
Alarm message	Configuration error: Acceleration axis 2	
Cause	Current acceleration is outside the configured acceleration range	
Error correction	<ul style="list-style-type: none"> <li>The drive has exceeded the permissible acceleration range</li> <li>Check configuration maximum speed</li> <li>Analyze velocity / acceleration with SCOPE</li> </ul>	

<b>Alarm Code</b>	<b>A 3333 / A 3334</b>	<b>ECS</b>
Alarm message	Plausibility error SinCos encoder	
Cause	Wrong sensor type connected	
Error correction	<ul style="list-style-type: none"> <li>Check configuration</li> <li>Check sensor connector</li> <li>Record and check sin/cos signals</li> </ul>	

<b>Alarm Code</b>	<b>A 3337 / A3338</b>	<b>ECS</b>
Alarm message	Incremental encoder axis 2 incorrect	
Cause	<ul style="list-style-type: none"> <li>Track A does not correspond to track B</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check sensor wiring</li> <li>Check sensor configuration</li> <li>Check and record encoder signals</li> </ul>	

<b>Alarm Code</b>	<b>A 3407 / A 3408</b>	<b>ECS</b>
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"> <li>No encoder connection</li> <li>Wrong encoder type connected</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Control the encoder connection</li> <li>Check the encoder wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3409 / A 3410</b>	<b>ECS</b>
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"> <li>No encoder connection</li> <li>Wrong encoder type connected</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Control the encoder connection</li> <li>Check the encoder wiring</li> </ul>	

<b>Alarm Code</b>	<b>A 3411 / A 3412</b>	<b>ECS</b>
Alarm message	Plausibility error Sine/Cosine X31	
Cause	<ul style="list-style-type: none"> <li>• Plausibility monitoring of detached line faulty</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check sensor wiring</li> <li>• Sinus to Cosine must be linear</li> <li>• Attenuation on Sin/Cos lines too big</li> <li>• Interference on Sin/Cos lines</li> </ul>	

<b>Alarm Code</b>	<b>A 3413 / A 3414</b>	<b>ECS</b>
Alarm message	Plausibility error Sine/Cosine X32	
Cause	<ul style="list-style-type: none"> <li>• Plausibility monitoring of detached line faulty</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check sensor wiring</li> <li>• Sinus to Cosine must be linear</li> <li>• Attenuation on Sin/Cos lines too big</li> <li>• Interference on Sin/Cos lines</li> </ul>	

<b>Alarm Code</b>	<b>A 3415 / A 3416</b>	<b>ECS</b>
Alarm message	Proxy counter plausibility fault.	
Cause	Difference level monitoring on proxy switch lines failed.	
Error correction	<ul style="list-style-type: none"> <li>• Check sensor wiring</li> <li>• Check phase shift on sensor lines</li> <li>• Check maximum counter frequency (see Installation Manual)</li> </ul>	

<b>Alarm Code</b>	<b>A 3417 / A 3418</b>	<b>ECS</b>
Alarm message	CLK error number for SSI listener 1st axis	
Cause	<ul style="list-style-type: none"> <li>• Plausibility monitoring of the number of configured CLK's</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check encoder wiring</li> <li>• Check SSI Master configuration</li> <li>• Configured number of clocks has to match physical clocks from SSI master</li> <li>• The mono flop time must be greater than 40 <math>\mu</math>s</li> </ul>	

<b>Alarm Code</b>	<b>A 3419 / A 3420</b>	<b>ECS</b>
Alarm message	CLK error number for SSI listener 2nd axis	
Cause	<ul style="list-style-type: none"> <li>• Plausibility monitoring of the number of configured CLK's</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check encoder wiring</li> <li>• Check SSI Master configuration</li> <li>• Configured number of clocks has to match physical clocks from SSI master</li> <li>• The mono flop time must be greater than 40 <math>\mu</math>s</li> </ul>	

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

<b>Alarm Code</b>	<b>A 3453 / A 3454</b>	<b>ECS</b>
Alarm message	Arithmetic mean value of resolver reference signal is out of range	
Cause	<ul style="list-style-type: none"> <li>• Mean value of reference signal of resolver is outside of the admissible range.</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the connected resolver</li> <li>• Record and analyze the resolver signals</li> <li>• Check the voltage level of the resolver signals (Min, Max, Variance)</li> </ul>	

<b>Alarm Code</b>	<b>A 3455 / A 3456</b>	<b>ECS</b>
Alarm message	Generic PIC error	
Cause	<ul style="list-style-type: none"> <li>• HW error on the extension board</li> <li>• PIC controller reported generic error</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring of the encoder expansion card</li> <li>• Check the settings for encoder X33/X34</li> <li>• Power Reset</li> <li>• Replace Device</li> </ul>	

<b>Alarm Code</b>	<b>A 3457 / A 3458</b>	<b>ECS</b>
Alarm message	Encoder reference voltage on extension board X33/X34 is incorrect (U_REF monitoring)	
Cause	<ul style="list-style-type: none"> <li>• Wrong encoder wiring</li> <li>• HW error on extension board</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring of the encoder expansion card</li> <li>• Check the settings for encoder X33/X34</li> <li>• Power Reset</li> <li>• Replace Device</li> </ul>	

<b>Alarm Code</b>	<b>A 3459 / A 3460</b>	<b>ECS</b>
Alarm message	The amplitude of the Sine /Cosine signals is out of range	
Cause	<ul style="list-style-type: none"> <li>• Incorrect configuration of sensor</li> <li>• Incorrect connection of encoder</li> <li>• Wrong encoder signals</li> <li>• Interference on encoder signals</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check sensor configuration</li> <li>• Check connections of sensors</li> <li>• Record encoder signals</li> <li>• Check EMC guidelines</li> <li>• Power Reset</li> </ul>	

<b>Alarm Code</b>	<b>A 3461 / A 3462</b>	<b>ECS</b>
Alarm message	The PIC reports a general status error, e.g. during connection establishment or because a timeout during processing has occurred.	
Cause	<ul style="list-style-type: none"> <li>• Wrong encoder signals</li> <li>• Defect RS485 encoder driver</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Power cycle of device</li> <li>• Check encoder signals on X33/X34</li> <li>• Check encoder wiring on X33/X34</li> </ul>	

	<ul style="list-style-type: none"> <li>• Replace device</li> </ul>
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<b>Alarm Code</b>	<b>A 3463 / A 3464</b>	<b>ECS</b>
Alarm 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"> <li>• Wrong encoder signals</li> <li>• Defect RS485 encoder driver</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check encoder signals on X33/X34</li> <li>• Check encoder wiring on X33/X34</li> <li>• Power cycle of device</li> <li>• Record and analyze the encoder signals</li> <li>• Replace device</li> </ul>	

<b>Alarm Code</b>	<b>A 3465 / A 3466</b>	<b>ECS</b>
Alarm message	The quotient of arithmetic mean value / quadratic mean value is outside of the admissible range.	
Cause	<ul style="list-style-type: none"> <li>• Incorrect signals from sensor</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check encoder signals on X33/X34</li> <li>• Check encoder wiring on X33/X34</li> <li>• Record and analyze the encoder signals</li> </ul>	

<b>Alarm Code</b>	<b>A 3467 / A 3468</b>	<b>ECS</b>
Alarm message	Connection establishment between CPU and PIC has failed.	
Cause	<ul style="list-style-type: none"> <li>• Incorrect Encoder signals</li> <li>• Hardware defect on X33/X34</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check extension board</li> <li>• Check encoder input level on X33/X34</li> <li>• Power Cycle</li> <li>• Replace device</li> </ul>	

<b>Alarm Code</b>	<b>A 3469 / A 3470</b>	<b>ECS</b>
Alarm message	Resolver Quadrant	
Cause	<ul style="list-style-type: none"> <li>• Incorrect sensor signals from encoder</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Power Cycle</li> </ul>	



<b>Alarm Code</b>	<b>A 3471 / A 3472</b>	<b>ECS</b>
Alarm message	Resolver_UENC	
Cause	<ul style="list-style-type: none"> <li>Encoder supply voltage is not connected</li> <li>Wrong encoder supply voltage configured</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check encoder supply voltage on X17/X19</li> <li>Check configuration for encoder supply voltage monitoring on X33/X34</li> <li>Check the encoder signals</li> <li>Power Cycle</li> </ul>	

<b>Alarm Code</b>	<b>A 3473 / A 3474</b>	<b>ECS</b>
Alarm message	TTL/HTL signal incorrect	
Cause	<ul style="list-style-type: none"> <li>Incorrect sensor signal from encoder</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check the encoder connection</li> <li>Check the encoder signals</li> <li>Power Cycle</li> </ul>	

<b>Alarm Code</b>	<b>A 3475 / A 3476</b>	<b>ECS</b>
Alarm message	Resolver_TRACE Error	
Cause	<ul style="list-style-type: none"> <li>Counter signals of encoder are incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check the encoder connection X33/X34</li> <li>Check the encoder signals</li> <li>Check extension board</li> <li>Power Cycle</li> </ul>	

<b>Alarm Code</b>	<b>A 3477 / A 3478</b>	<b>ECS</b>
Alarm message	SSI clock error	
Cause	<ul style="list-style-type: none"> <li>Plausibility check SSI Clock (Clock missing)</li> <li>Wrong clock signals on SSI Listener</li> <li>SSI mono flop time out of range</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Clock Signal Check</li> <li>Check cables</li> <li>Check the configuration of the SSI Master</li> <li>Record and check the SSI Signals</li> </ul>	

<b>Alarm Code</b>	<b>A 3501 / A 3502</b>	<b>ECS</b>
Alarm message	PXV_CRC32 Error	
Cause	<ul style="list-style-type: none"> <li>Error during transmission of PXV data from the sensor</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check the encoder connection</li> <li>Check the encoder signals</li> <li>Check EMC regulations</li> <li>Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3503 / A 3504</b>	<b>ECS</b>
Alarm message	PXV zero position	
Cause	<ul style="list-style-type: none"> <li>• Too many zero positions received</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check EMC regulations</li> <li>• Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3505 / A 3506</b>	<b>ECS</b>
Alarm message	PXV zero position	
Cause	<ul style="list-style-type: none"> <li>• Too many zero positions received</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check EMC regulations</li> <li>• Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3507 / A 3508</b>	<b>ECS</b>
Alarm message	PXV color switching faulty	
Cause	<ul style="list-style-type: none"> <li>• Unexpected color received</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check EMC regulations</li> <li>• Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3511 / A 3512</b>	<b>ECS</b>
Alarm message	WCS: Invalid length	
Cause	<ul style="list-style-type: none"> <li>• Unexpected length of received data</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Checking the encoder connection</li> <li>• Check the encoder settings and hardware switching of the sensor</li> <li>• Check EMC regulations</li> <li>• Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3513 / A 3514</b>	<b>ECS</b>
Alarm message	WCS: Invalid counter	
Cause	<ul style="list-style-type: none"> <li>• Counter of received data invalid (package loss?)</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Checking the encoder connection</li> <li>• Check the encoder settings and hardware switching of the sensor</li> <li>• Check EMC regulations</li> <li>• Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3515 / A 3516</b>	<b>ECS</b>
Alarm message	WCS: Invalid checksum	
Cause	<ul style="list-style-type: none"> <li>Checksum of the received data invalid</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Checking the encoder connection</li> <li>Check the encoder settings and hardware switching of the sensor</li> <li>Check EMC regulations</li> <li>Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3517 / A 3518</b>	<b>ECS</b>
Alarm message	WCS: Invalid address	
Cause	<ul style="list-style-type: none"> <li>Address of receive telegram invalid, does not match configuration</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Checking the encoder connection</li> <li>Check the encoder settings and hardware switching of the sensor</li> <li>Check EMC regulations</li> <li>Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3519 / A 3520</b>	<b>ECS</b>
Alarm message	WCS: Error bit ERR	
Cause	<ul style="list-style-type: none"> <li>Error bit ERR is active; no position could be determined.</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check the encoder connection</li> <li>Check the encoder settings and hardware switchover of the sensor</li> <li>Check the mounting of the sensor on the WCS rail</li> <li>Check possible causes of error according to the sensor manual.</li> <li>Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3521 / A 3522</b>	<b>ECS</b>
Alarm message	WCS: Error bit OUT	
Cause	<ul style="list-style-type: none"> <li>Error bit OUT is active; no position could be determined.</li> <li>The sensor is located outside the WCS code rail</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Checking the encoder connection</li> <li>Check the encoder settings and hardware switching of the sensor</li> <li>Check the mounting of the sensor on the WCS rail</li> <li>Check possible causes of error according to the sensor manual.</li> <li>Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3523 / A 3524</b>	<b>ECS</b>
Alarm message	WCS: Error bit DB	
Cause	<ul style="list-style-type: none"> <li>Error bit DB is active</li> <li>Sensor optics dirty</li> <li>Code rail damaged</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Checking the encoder connection</li> <li>Check the encoder settings and hardware switching of the sensor</li> <li>Check the mounting of the sensor on the WCS rail</li> <li>Check possible causes of error according to the sensor manual.</li> <li>Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3525 / A 3526</b>	<b>ECS</b>
Alarm message	WCS: Supply voltage below the minimum <b>Note:</b> The supply voltages are monitored crosswise. A3525: WCS Sensor B A3526: WCS Sensor A	
Cause	<ul style="list-style-type: none"> <li>The sensor supply voltage falls below the minimum (19.2V)</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Checking the encoder connection</li> <li>Checking the encoder supply voltage</li> <li>Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3527 / A 3528</b>	<b>ECS</b>
Alarm message	WCS: Supply voltage above the maximum <b>Note:</b> The supply voltages are monitored crosswise. A3527: WCS Sensor B A3528: WCS Sensor A	
Cause	<ul style="list-style-type: none"> <li>The sensor supply voltage exceeds the maximum (28,8V)</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Checking the encoder connection</li> <li>Checking the encoder supply voltage</li> <li>Replacing the encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3551 / A 3552</b>	<b>ECS</b>
Alarm message	SSI ECE STATUS 1. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>Analysis of 1. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check the encoder connection</li> <li>Check the encoder signals</li> <li>Check the meaning of the error bit in the encoder manual</li> <li>Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3553 / A 3554</b>	<b>ECS</b>
Alarm message	SSI ECE STATUS 1. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>Analysis of 2. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check the encoder connection</li> <li>Check the encoder signals</li> <li>Check the meaning of the error bit in the encoder manual</li> <li>Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3555 / A 3556</b>	<b>ECS</b>
Alarm message	SSI ECE STATUS 1. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>Analysis of 3. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>Check the encoder connection</li> <li>Check the encoder signals</li> <li>Check the meaning of the error bit in the encoder manual</li> <li>Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3557 / A 3558</b>	<b>ECS</b>
Alarm message	SSI_ECE STATUS 1. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 4. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3559 / A 3560</b>	<b>ECS</b>
Alarm message	SSI_ECE STATUS 1. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 5. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3561 / A 3562</b>	<b>ECS</b>
Alarm message	SSI_ECE STATUS 2. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 1. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3563 / A 3564</b>	<b>ECS</b>
Alarm message	SSI_ECE STATUS 2. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 2. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3565 / A 3566</b>	<b>ECS</b>
Alarm message	SSI_ECE STATUS 2. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 3. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3567 / A 3568</b>	<b>ECS</b>
Alarm message	SSI_ECE STATUS 2. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 4. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3569 / A 3570</b>	<b>ECS</b>
Alarm message	SSI ECE STATUS 2. axis SSI ext encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 5. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3571 / A3572</b>	<b>ECS</b>
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 1. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3573 / A3574</b>	<b>ECS</b>
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 2. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3575 / A3576</b>	<b>ECS</b>
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 3. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3577 / A3578</b>	<b>ECS</b>
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 4. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3579 / A3580</b>	<b>ECS</b>
Alarm message	SSI STATUS 1. axis SSI encoder	
Cause	<ul style="list-style-type: none"> <li>• Analysis of 5. status bit is incorrect</li> </ul>	
Error correction	<ul style="list-style-type: none"> <li>• Check the encoder connection</li> <li>• Check the encoder signals</li> <li>• Check the meaning of the error bit in the encoder manual</li> <li>• Exchange the SSI encoder</li> </ul>	

<b>Alarm Code</b>	<b>A 3627 / A 3628</b>
Alarm message	Error static test Highside output 1
Cause	Faulty switching of the output <ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring of the output (short-circuit)</li> <li>• Checking the Hardware</li> </ul>

<b>Alarm Code</b>	<b>A 3629 / A 3630</b>
Alarm message	Error static test Highside output 2
Cause	Faulty switching of the output <ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring of the output (short-circuit)</li> <li>• Checking the Hardware</li> </ul>

<b>Alarm Code</b>	<b>A 3631 / A 3632</b>
Alarm message	Error static test HighSide output 3
Cause	Faulty switching of the output <ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring of the output (short-circuit)</li> <li>• Checking the Hardware</li> </ul>

<b>Alarm Code</b>	<b>A 3633 / A 3634</b>
Alarm message	Error static test HighSide output 4
Cause	Faulty switching of the output <ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring of the output (short-circuit)</li> <li>• Checking the Hardware</li> </ul>

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

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

<b>Alarm Code</b>	<b>A 3653 / A 3654</b>
Alarm message	Error dynamic test Main Switch 1 HighSide outputs 1 and 2
Cause	<ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring (short circuit)</li> <li>• Checking the Hardware</li> </ul>

<b>Alarm Code</b>	<b>A 3655 / A 3656</b>
Alarm message	Error dynamic test Main Switch 2 HighSide outputs 3 and 4
Cause	<ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring (short circuit)</li> <li>• Checking the Hardware</li> </ul>

<b>Alarm Code</b>	<b>A 3657 / A 3658</b>
Alarm message	Error dynamic test HighSide 1
Cause	<ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring (short circuit)</li> <li>• Checking the hardware</li> </ul>

<b>Alarm Code</b>	<b>A 3659 / A 3660</b>
Alarm message	Error dynamic test HighSide 2
Cause	<ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring (short circuit)</li> <li>• Checking the hardware</li> </ul>

<b>Alarm Code</b>	<b>A 3661 / A 3662</b>
Alarm message	Error dynamic test HighSide 3
Cause	<ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring (short circuit)</li> <li>• Checking the hardware</li> </ul>

<b>Alarm Code</b>	<b>A 3663 / A 3664</b>
Alarm message	Error dynamic test HighSide 4
Cause	<ul style="list-style-type: none"> <li>• Incorrect wiring (short circuit)</li> <li>• Hardware defect</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the wiring (short circuit)</li> <li>• Checking the hardware</li> </ul>

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



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

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

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

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

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

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

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

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

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

<b>Alarm Code</b>	<b>A 4001 / A 4002</b>
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	<ul style="list-style-type: none"> <li>• Check the logic of the SDI function blocks in the application program</li> <li>• Check the levels of the connected inputs for the application program</li> <li>• Analyse the input and logic signals using the device function block diagnosis</li> </ul>

<b>Alarm Code</b>	<b>A 4003 / A 4004</b>
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	<ul style="list-style-type: none"> <li>• Check the logic of the SDI function blocks in the application program</li> <li>• Check the levels of the connected inputs for the application program</li> <li>• Analyse the input and logic signals using the device function block diagnosis</li> </ul>

<b>Alarm Code</b>	<b>A 4601 / A 4602</b>
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	<ul style="list-style-type: none"> <li>• Check the logic of the SLP function blocks in the application program</li> <li>• Check the levels of the connected inputs for the application program</li> <li>• Analyze the input and logic signals using the device function block diagnosis</li> </ul>

<b>Alarm Code</b>	<b>A 4603 / A 4604</b>
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	<ul style="list-style-type: none"> <li>• Check the logic of the SLP function blocks in the application program</li> <li>• Check the levels of the connected inputs for the application program</li> <li>• Analyse the input and logic signals using the device function block diagnosis</li> </ul>

<b>Alarm Code</b>	<b>A 4605 / A 4606</b>
Alarm message	SLP1 Teach In status error
Cause	SET and QUIT input have an incorrect switching sequence
Error correction	<ul style="list-style-type: none"> <li>• Check input configuration</li> <li>• Check switching sequence</li> </ul>

<b>Alarm Code</b>	<b>A 4607 / A 4608</b>
Alarm message	SLP 2 Teach In status error
Cause	SET and QUIT input have an incorrect switching sequence
Error correction	<ul style="list-style-type: none"> <li>• Check input configuration</li> <li>• Check switching sequence</li> </ul>

<b>Alarm Code</b>	<b>A 4609 / A 4610</b>
Alarm message	SLP1 Teach In position error
Cause	Teach In position outside of measurement range
Error correction	<ul style="list-style-type: none"> <li>• Check TeachIn Position</li> <li>• Adapt configuration of SLP block to the real physics</li> </ul>

<b>Alarm Code</b>	<b>A 4611 / A 4612</b>
Alarm message	SLP2 Teach In position error
Cause	Teach In position outside of measurement range
Error correction	<ul style="list-style-type: none"> <li>• Check TeachIn Position</li> <li>• Adapt configuration of SLP block to the real physics</li> </ul>

<b>Alarm Code</b>	<b>A 4613 / A 4614</b>
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

<b>Alarm Code</b>	<b>A 4615 / A 4616</b>
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

<b>Alarm Code</b>	<b>A 4705</b>
Alarm message	Faulty communication with the SD card in status "Command"
Cause	<ul style="list-style-type: none"> <li>• SD card is not inserted correctly</li> <li>• Faulty SD card</li> <li>• Incompatible SD card type</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the SD card</li> <li>• Check the SD card type</li> <li>• Check if SD card is inserted completely into slot</li> <li>• Power Cycle</li> </ul>

<b>Alarm Code</b>	<b>A 4706</b>
Alarm message	Faulty communication with the SD card in status "Fetch"
Cause	<ul style="list-style-type: none"> <li>• SD card is not inserted correctly</li> <li>• Faulty SD card</li> <li>• Incompatible SD card type</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the SD card</li> <li>• Check the SD card type</li> <li>• Check if SD card is inserted completely into slot</li> <li>• Power Cycle</li> </ul>

<b>Alarm Code</b>	<b>A 4707</b>
Alarm message	Error reading the SMF data from the SD card
Cause	<ul style="list-style-type: none"> <li>• Faulty SD card</li> <li>• Incorrect formatting of the SD card</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check the SD card</li> <li>• Re-transmitter of the SMF data to the module</li> <li>• Check if SD card is inserted completely into slot</li> <li>• Power Cycle</li> </ul>

<b>Alarm Code</b>	<b>A 4801 / A 4802</b>
Alarm message	PRF deviation Encoder 1
Cause	The PRF adjustment was done outside of a valid range.
Error correction	<ul style="list-style-type: none"> <li>• Review of the physically measured and parameterized PRF positions</li> <li>• Careful increasing the PRF tolerance</li> <li>• Check the wiring of contact for PRF Enable</li> </ul>

<b>Alarm Code</b>	<b>A 4803 / A 4804</b>
Alarm message	PRF deviation Encoder 2
Cause	The PRF adjustment was done outside of a valid range.
Error correction	<ul style="list-style-type: none"> <li>• Review of the physically measured and parameterized PRF positions</li> <li>• Careful increasing the PRF tolerance</li> <li>• Check the wiring of contact for PRF Enable</li> </ul>

<b>Alarm Code</b>	<b>A 4901 / A 4902</b>
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	<ul style="list-style-type: none"> <li>• Check the logic of the SLI function blocks in the application program</li> <li>• Check the levels of the connected inputs for the application program</li> <li>• Analyse the input and logic signals using the device function block diagnosis</li> </ul>

<b>Alarm Code</b>	<b>A 4903 / A 4904</b>
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	<ul style="list-style-type: none"> <li>• Check the logic of the SDI function blocks in the application program</li> <li>• Check the levels of the connected inputs for the application program</li> <li>• Analyse the input and logic signals using the device function block diagnosis</li> </ul>

<b>Alarm Code</b>	<b>A 5001 / A 5002</b>	<b>ICS</b>
Alarm message	Test deactivation digital inputs 1...14 incorrect	
Cause	Inputs are still active after deactivation	
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of digital inputs</li> <li>• Power Cycle</li> <li>• Replace device</li> </ul>	

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

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

<b>Alarm Code</b>	<b>A 7403 / A 7404</b>
Error message	Overflow/Underflow process data transmission to F-Bus
Cause	Speed value or position value to be transmitted via F-bus is too high or too low for the configured resolution
Error correction	<ul style="list-style-type: none"><li>• Speed value too high / too low: parameterize 16 bit instead of 8 bit resolution</li><li>• Position value too high / too low: parameterize 24-bit instead of 16-bit resolution or increase position divider</li><li>• Apply a scaling factor</li></ul>

### 3 Fatal Error List

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

<b>Fatal Error Code</b>	<b>F 1003</b>
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	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Configured device with released application software</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 1007</b>
Error message	Configured device ID does not match physical device.
Cause	<ul style="list-style-type: none"> <li>• A wrong device type was selected during programming</li> <li>• Binary data from different device type were used to send</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Select the correct device type before programming the device</li> <li>• Select the necessary device variant according to your hardware requirement</li> </ul>

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

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

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

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

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

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

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

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



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

<b>Fatal Error Code</b>	<b>F 1409 / F 1410</b>
Error message	Wrong PRF CRC No PRF data found while PRF supervision function is configured
Cause	<ul style="list-style-type: none"> <li>• PRF table was not sent to device</li> <li>• PRF table still marked as used inside the configuration</li> <li>• PRF was not transferred correctly when importing function plans from older SafePLC versions</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Insert PRF X/Y Position table in function plan, then delete them and compile again</li> <li>• Re-Transmit configuration to device (including PRF position tables if used)</li> <li>• Power Cycle</li> </ul>

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

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

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

<b>Fatal Error Code</b>	<b>F 1601 / F 1602</b>
Error message	Range check of device information incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1603 / F 1604</b>
Error message	Range check of access data incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1605 / F 1606</b>
Error message	Range check of EMU incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1607 / F 1608</b>
Error message	Range check of SCA incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1609 / F 1610</b>
Error message	Range check of SSX incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1611 / F 1612</b>
Error message	Range check of SEL incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1613 / F 1614</b>
Error message	Range check of SLP incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1615 / F 1616</b>
Error message	Range check of SOS incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1617 / F 1618</b>
Error message	Range check of SLS incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1619 / F 1620</b>
Error message	Range check of SDI incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1621 / F 1622</b>
Error message	Range check of SLI incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1623 / F 1624</b>
Error message	Range check of PLC incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1625 / F 1626</b>
Error message	Range check of switch off channel incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1627 / F 1628</b>
Error message	Range check of outputs incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1629 / F 1630</b>
Error message	Range check of digital inputs incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1631 / F 1632</b>
Error message	Range check of analog input
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1633 / F 1634</b>
Error message	Range check of sensor type incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1635 / F 1636</b>
Error message	Range check of sensor processing incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1637 / F 1638</b>
Error message	Range check of sensor position incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1639 / F 1640</b>
Error message	Range check of PDM incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1641 / F 1642</b>
Error message	Range check of adder switching incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1645 / F 1646</b>
Error message	Range check of axis management incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1647 / F 1648</b>
Error message	Range check of expansion assembly groups incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1649 / F 1650</b>
Error message	Range check of PLC timer incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1651 / F 1652</b>
Error message	Range check of system incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1653 / F 1654</b>
Error message	Range check of connection table incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1655 / F 1656</b>
Error message	Range check of SAC incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1657 / F 1658</b>
Error message	Range check of diagnosis incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>



<b>Fatal Error Code</b>	<b>F 1659 / F 1660</b>
Error message	Range check of DEM incorrect.
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1661 / F 1662</b>
Error message	Range check FBus incorrect
Cause	<ul style="list-style-type: none"> <li>• Incompatible application software</li> <li>• Error when importing old layout on new application software</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check FW Version and Version of the application software</li> <li>• Check and correct faulty blocks inside application/function plan</li> <li>• Delete and reinsert faulty blocks inside function plan and parameterize</li> <li>• Import a backup of the function block diagram with the originally used programming interface</li> </ul>

<b>Fatal Error Code</b>	<b>F 1663 / F 1664</b>
Error message	Range check WCS incorrect
Cause	Invalid settings of the WCS system
Error correction	<ul style="list-style-type: none"> <li>• The set address of both read heads must be different and between 0 and 3.</li> <li>• The supported baud rate is limited to 62.5 kBaud and 187.5 kBaud.</li> <li>• Check and correct the settings.</li> <li>• If necessary, adjust the DIP switches of the WCS read heads accordingly.</li> <li>• Install the changed configuration and restart (POR) the devices.</li> </ul>

<b>Fatal Error Code</b>	<b>F 1671 / F 1672</b>
Error message	Range check PRF Void
Cause	No PRF reference table is present even though configuration PRF function used on the device.
Error correction	<ul style="list-style-type: none"> <li>• Send PRF position table to device</li> <li>• Insert X/Y position tables and PRF function, then delete the inserted PRF blocks and position tables again (if no PRF is used)</li> <li>• Re-transmit configuration to device (including PRF data if used)</li> </ul>

<b>Fatal Error Code</b>	<b>F 1673 / F 1674</b>
Error message	Range check PRF sorting
Cause	Entries inside PRF position table are not sorted ascendingly
Error correction	<ul style="list-style-type: none"> <li>• Check PRF X/Y tables for ascending positions</li> <li>• Re-transmit the configuration and PRF data to device</li> </ul>

<b>Fatal Error Code</b>	<b>F 1675 / F 1676</b>
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	<ul style="list-style-type: none"> <li>• Check PRF X/Y tables to meet requirement</li> <li>• Re-transmit the configuration and PRF data to device</li> </ul>

<b>Fatal Error Code</b>	<b>F 1677 / F 1678</b>
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	<ul style="list-style-type: none"> <li>• Check PRF X/Y tables to meet requirement</li> <li>• Re-transmit the configuration and PRF data to device</li> </ul>

<b>Fatal Error Code</b>	<b>F 1681 / F 1682</b>
Error message	SPM position table does not match the configuration
Cause	The configuration of the device or the PLC program does not match the stored SPM position table.
Error correction	<ul style="list-style-type: none"> <li>• Recompile and transfer the configuration and SPM position table</li> <li>• Ensure that the SPM position table has been transferred successfully.</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 1683 / F 1684</b>
Error message	SPM Position range invalid.
Cause	A position range in the SPM table is invalid. The start or end position is outside the measuring range or the end position is smaller than the start position.
Error correction	<ul style="list-style-type: none"> <li>• Correcting the SPM position ranges</li> <li>• Recompile and transfer the configuration and SPM position table</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 1685 / F 1686</b>
Error message	SPM position ranges not sorted.
Cause	The position ranges in the SPM table are not sorted in ascending order or overlap.
Error correction	<ul style="list-style-type: none"> <li>• Correcting the SPM position ranges</li> <li>• Recompile and transfer the configuration and SPM position table</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 1687 / F 1688</b>
Error message	No SPM position ranges available.
Cause	An SPM was used in the configuration, but no table with position ranges was found.
Error correction	<ul style="list-style-type: none"> <li>• Recompile and transfer the configuration and SPM position table</li> <li>• Ensure that the SPM position table has been successfully transferred.</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 1689 / F 1690</b>
Error message	The number of configured position ranges exceeds the permitted maximum.
Cause	The number of configured position ranges exceeds the permitted maximum.
Error correction	<ul style="list-style-type: none"> <li>• Reduce the number of SPM position ranges used.</li> <li>• Recompile and transfer the configuration and SPM position table</li> <li>• Power Cycle</li> </ul>

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

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

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

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

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

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

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

<b>Fatal Error Code</b>	<b>F 3201 / F 3202</b>
Error message	Processor voltage 2.5V outside of defined range
Cause	<ul style="list-style-type: none"> <li>• Supply voltage of assembly group incorrect!</li> <li>• Component error in assembly group</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check device supply voltage!</li> <li>• Check output wiring and connection of device</li> <li>• Switch off/on device.</li> </ul>

<b>Fatal Error Code</b>	<b>F 3203</b>
Error message	Supply voltage 24V assembly group incorrect.
Cause	<ul style="list-style-type: none"> <li>• Supply voltage of assembly group incorrect!</li> <li>• Component error in assembly group</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check device supply voltage!</li> <li>• Check output wiring and connection of device</li> <li>• Switch off/on device.</li> </ul>

<b>Fatal Error Code</b>	<b>F 3204</b>
Error message	Internal supply voltage 5.7V incorrect.
Cause	<ul style="list-style-type: none"> <li>• Supply voltage of assembly group incorrect!</li> <li>• Component error in assembly group</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check device supply voltage!</li> <li>• Check output wiring and connection of device</li> <li>• Switch off/on device.</li> </ul>

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

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

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

<b>Fatal Error Code</b>	<b>F 3609</b>
Error message	Incorrect switching of „0V“ driver DO1_L
Cause	Switching status output incorrect
Error correction	<ul style="list-style-type: none"> <li>• Check output wiring of device</li> <li>• Check wiring for short circuit</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3610</b>
Error message	Incorrect switching of „24V“ driver DO1_H
Cause	Switching status output incorrect
Error correction	<ul style="list-style-type: none"> <li>• Check output wiring of device</li> <li>• Check wiring for short circuit</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3611</b>
Error message	Incorrect switching of „0V“ driver DO2_L
Cause	Switching status output incorrect
Error correction	<ul style="list-style-type: none"> <li>• Check output wiring of device</li> <li>• Check wiring for short circuit</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3612</b>
Error message	Incorrect switching of „24V“ driver DO2_H
Cause	Switching status output incorrect
Error correction	<ul style="list-style-type: none"> <li>• Check output wiring of device</li> <li>• Check wiring for short circuit</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3613</b>
Error message	Incorrect testing of „0V“ driver DO1_L
Cause	Short circuit of output with „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check output wiring of device</li> <li>• Check wiring for short circuit</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3614</b>
Error message	Incorrect testing of „24V“ driver DO1_H
Cause	Short circuit of output with „24V“
Error correction	<ul style="list-style-type: none"> <li>• Check output wiring of device</li> <li>• Check wiring for short circuit</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3615</b>
Error message	Incorrect testing of „0V“ driver DO2_L
Cause	Short circuit of output with „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check output wiring of device</li> <li>• Check wiring for short circuit</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3616</b>
Error message	Incorrect testing of „24V“ driver DO2_H
Cause	Short circuit of output with „24V“
Error correction	<ul style="list-style-type: none"> <li>• Check output wiring of device</li> <li>• Check wiring for short circuit</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

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

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

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

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

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

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

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

<b>Fatal Error Code</b>	<b>F 3625 / F3626</b>
Error message	Incorrect switching of output main switch
Cause	<ul style="list-style-type: none"> <li>• Wrong wiring on device</li> <li>• Short circuit</li> </ul>
Error correction	<ul style="list-style-type: none"> <li>• Check output wiring of device</li> <li>• Check wiring for short circuit</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

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

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

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

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



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

<b>Fatal Error Code</b>	<b>F 3821 / F 3822</b>
Error message	Incorrect switching of output EAAx.1
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 3823 / F 3824</b>
Error message	Incorrect switching of output EAAx.2
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 3825 / F 3826</b>
Error message	Incorrect switching of output EAAx.3
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 3827 / F 3828</b>
Error message	Incorrect switching of output EAAx.4
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 3829 / F 3830</b>
Error message	Incorrect switching of output EAAx.5
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 3831 / F 3832</b>
Error message	Incorrect switching of output EAAx.6
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 3833 / F 3834</b>
Error message	Incorrect switching of output EAAx.7
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 3835 / F 3836</b>
Error message	Incorrect switching of output EAAx.8
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 3837 / F 3838</b>
Error message	Incorrect switching of output EAAx.9
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 3839 / F 3840</b>
Error message	Incorrect switching of output EAAx.10
Cause	Short circuit of output with „24V“ or „0V“
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> </ul>

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

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

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

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

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

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

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

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

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

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

<b>Fatal Error Code</b>	<b>F 3871 / F 3872</b>
Error message	Incorrect switching of power main switch 1 for outputs on extension device
Cause	-
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3873 / F 3874</b>
Error message	Incorrect switching of power main switch 2 for outputs on extension device
Cause	-
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3891 / F 3892</b>
Error message	Incorrect switching of power main switch 1 for outputs on extension device
Cause	-
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

<b>Fatal Error Code</b>	<b>F 3893 / F 3894</b>
Error message	Incorrect switching of power main switch 2 for outputs on extension device
Cause	-
Error correction	<ul style="list-style-type: none"> <li>• Check wiring of the outputs</li> <li>• Check the wiring for short circuits</li> <li>• Power Cycle</li> <li>• Replace Device</li> </ul>

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

<b>Fatal Error Code</b>	<b>F 4701 / F 4702</b>
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	<ul style="list-style-type: none"> <li>• Resend the SMF data and configuration data to the module</li> <li>• Check the SD card</li> <li>• Power Cycle</li> </ul>

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

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

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

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

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

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

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

<b>Fatal Error Code</b>	<b>F 7001 / F 7002</b>
Error message	Internal error FSoE stack
Cause	Error while processing FSoE data
Error correction	<ul style="list-style-type: none"> <li>• Check the settings of the FSoE Master</li> <li>• Check connectivity of the device</li> <li>• Power Cycle</li> </ul>

<b>Fatal Error Code</b>	<b>F 7429 / F 7430</b>
Error message	Inconsistent logical Profisafe Program Counter
Cause	-
Error correction	<ul style="list-style-type: none"> <li>• Check the bus configuration</li> <li>• Check connectivity of the device</li> <li>• Power Cycle</li> </ul>

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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