

Error list

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|-----------------------------|---|
| System: | 37500 SCU |
| Document: | EN Error list SCU |
| Doc.- Reference: | HB-37500-813-02 |
| Issue: | 13F |
| Date: | 20-03-2024 |
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| Released by: | M.Paukner |

Change history

| Nr. | Chapter/Page | Date | Changed by | Version | Changes |
|-----|--------------|------------|-----------------------------|---------|---|
| 1 | All | 03-01-2018 | A. Gebhard | 04E | Document created from error list SMX100 and German error list SCU V04E |
| 2 | | 22-03-2019 | H. Saeed | 05E | Error list from 3431 till 3484 |
| 3 | ALL | 26-03-2019 | S. Brust | 06E | Naming |
| 4 | ALL | 26-03-2020 | H. Saeed | 07E | IO extension and new Errors. |
| 5 | ALL | 04-06-2020 | H. Saeed | 08E | A9417 and A9419 |
| 6 | All | 09-08-2021 | D. Jankowski/ M. Paukner | 09E | SARC Errors A9205 ... A9244, A9261 ...A9296, A9321 ...A9356, F1421 ... F1424, F2270 ... F2299 |
| 7 | All | 16-08-2021 | M. Paukner | 09F | Review of SARC Errors |
| 8 | 36,37 | 04-10-2021 | M. Paukner | 10E | Add alarm numbers for MUL, ABS, NEG |
| 9 | All | 07-06-2022 | M.Khemiri | 11E | Update document, add format templates, new errors |

| | | | | | |
|----|---------|------------|------------|-----|---------------------------------------|
| 10 | All | 04-03-2024 | Z. Sokaria | 12E | Update document |
| 11 | All, 85 | 06-03-2024 | M.Khemiri | 13E | Add Logbook codes, Update document |
| 12 | All | 20-03-2024 | M.Paukner | 13F | Review |

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1 General

1.1 Technical status

This error list is valid for all SCU variants up to:

| |
|-----------------------------------|
| Firmware version V3.1.2.21 |
|-----------------------------------|

In addition to the error/alarm states listed in the installation manual, errors of the peripheral HW and configuration errors have also been included. Possibly there are errors included which require replacement of the device.

1.2 Error types

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

| Error type | Description | Impact on the system | Reset condition |
|-------------------|---|---|--|
| Fatal Error | Fatal exception caused by an internal program or hardware failure. Safe operation is no longer possible. | All outputs will be switched off! | Resettable by switching off/on the device (POR). |
| Alarm | Functional error, caused by an external process. Both systems keep on running in a cyclical manner and fulfil 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 / FSoE / CoE |
| 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 / FSoE / CoE |
| Info | Info Logbook | Info logbook, additional information about device start/stop, User requirement, alarm and fatal error | |

1.3 Error display

The error code is displayed via the 7-segment display.

There is also the possibility to view the error code via the SafePLC2 software.

The sequence of the error code display is as following:

F, A or E Error code


Note 1) Detection of Error System A (odd) and System B (even).

1.4 Alarm muting

Several functions exist to mute alarm messages:

- ICS: Muting of digital 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.

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|---|--|
|  | <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> |
|---|--|

2 Alarm List

| | |
|-------------------|--|
| Alarm Code | A 1211 / A1212 |
| Alarm message | New Configuration file is available on the SD card |
| Cause | Configuration file on the device and on the SD card are not identical |
| Remedy | <ul style="list-style-type: none"> Start the firmware upload after confirmation alarm from front button Check firmware update file and key file on the SD card |

| | |
|-------------------|--|
| Alarm Code | A 1213 / A1214 |
| Alarm message | New FW update file is available on the SD card. |
| Cause | New valid firmware update is available on the SD card. |
| Remedy | <ul style="list-style-type: none"> Start the firmware upload after confirmation alarm from front button Check firmware update file and key file on the SD card |

| | |
|-------------------|--|
| Alarm code | A 2301 |
| Alarm message | Communication Error SPI Interface |
| Cause | Incorrect data transmission External EMC |
| Remedy | <ul style="list-style-type: none"> Check EMC regulations Power Cycle Replace device |

| | |
|-------------------|---|
| Alarm code | A 3001 / A 3002 |
| Alarm message | Ticker error |
| Cause | Mismatch ticker b/w CPUA and CPUB |
| Remedy | <ul style="list-style-type: none"> The FW may be not correctly flashed HW problem. One of the CPU is started but the other is not |

| | |
|-------------------|---|
| Alarm code | A 3193 / A 3194 |
| Alarm message | Digital input Test |
| Cause | The input failure on the relay board. |
| Remedy | <ul style="list-style-type: none"> The input diagnoses caused this error |

| | |
|-------------------|---|
| Alarm code | A 3195 / A 3196 |
| Alarm message | The 24 V supply test of Digital input |
| Cause | The DI tests its supply and this test was not successful |
| Remedy | <ul style="list-style-type: none"> Check 24V input voltage of all OSSD inputs Power Reset |

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

| | |
|-------------------|--|
| Alarm code | A 3431 / A 3432 |
| Alarm message | External encoder speed axis 1 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3433 / A 3434 |
| Alarm message | External encoder speed axis 2 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3435 / A 3436 |
| Alarm message | External encoder speed axis 3 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3437 / A 3438 |
| Alarm message | External encoder speed axis 4 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3439 / A 3440 |
| Alarm message | External encoder speed axis 5 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3441 / A 3442 |
| Alarm message | External encoder speed axis 6 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3443 / A 3444 |
| Alarm message | External encoder speed axis 7 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3445 / A 3446 |
| Alarm message | External encoder speed axis 8 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3447 / A 3448 |
| Alarm message | External encoder speed axis 9 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3449 / A 3450 |
| Alarm message | External encoder speed axis 10 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3451 / A 3452 |
| Alarm message | External encoder speed axis 11 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3453 / A 3454 |
| Alarm message | External encoder speed axis 12 out of specified range |
| Cause | Speed value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3461 / A 3462 |
| Alarm message | External encoder position axis 1 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3463 / A 3464 |
| Alarm message | External encoder position axis 2 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3465 / A 3466 |
| Alarm message | External encoder position axis 3 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3467 / A 3468 |
| Alarm message | External encoder position axis 4 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3469 / A 3470 |
| Alarm message | External encoder position axis 5 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3471 / A 3472 |
| Alarm message | External encoder position axis 6 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3473 / A 3474 |
| Alarm message | External encoder position axis 7 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3475 / A 3476 |
| Alarm message | External encoder position axis 8 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3477 / A 3478 |
| Alarm message | External encoder position axis 9 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3479 / A 3480 |
| Alarm message | External encoder position axis 10 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3481 / A 3482 |
| Alarm message | External encoder position axis 11 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3483 / A 3484 |
| Alarm message | External encoder position axis 12 out of specified mess length |
| Cause | Position value invalid |
| Remedy | <ul style="list-style-type: none"> • Reset the alarm • Check configuration of axis |

| | |
|-------------------|--|
| Alarm code | A 3603 / A 3604 |
| Alarm message | First Relay output not working |
| Cause | The relay output is not working |
| Remedy | <ul style="list-style-type: none"> • Check the HW |

| | |
|-------------------|--|
| Alarm code | A 3605 / A 3606 |
| Alarm message | Second Relay output not working |
| Cause | The relay output is not working |
| Remedy | <ul style="list-style-type: none"> • Check the HW |

| | |
|-------------------|--|
| Alarm code | A 3627 / A 3628 |
| Alarm message | Error static testing of HighSide output 1 |
| Cause | Faulty switching of the output <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3629 / A 3630 |
| Alarm message | Error static testing of HighSide output 2 |
| Cause | Faulty switching of the output <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3631 / A 3632 |
| Alarm message | Error static testing of HighSide output 3 |
| Cause | Faulty switching of the output <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3633 / A 3634 |
| Alarm message | Error static testing of HighSide output 4 |
| Cause | Faulty switching of the output <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

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|-------------------|--|
| Alarm code | A 3635 / A 3636 |
| Alarm message | Error static testing of Main Switch 1 of HighSide outputs 1 and 2 |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3637 / A 3638 |
| Alarm message | Error static testing of Main Switch 2 of HighSide outputs 3 and 4 |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3653 / A 3654 |
| Alarm message | Error dynamic testing of Main Switch 1 of HighSide outputs 1 and 2 |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

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

| | |
|-------------------|---|
| Alarm Code | A 3723 / A 3724 |
| Cause | SARC calculation time exceeded |
| Remedy | Faulty SARC calculation. |
| Alarm message | <ul style="list-style-type: none"> • Configure higher cycle time • Check SARC program |

| | |
|-------------------|--|
| Alarm Code | A 3725 / A 3726 |
| Cause | Invalid SARC licensing |
| Remedy | Missing SARC license |
| Alarm message | <ul style="list-style-type: none"> • Check SARC licensing |

| | |
|-------------------|--|
| Alarm code | A 3801 / A 3802 |
| Alarm message | Error on first input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3803 / A 3804 |
| Alarm message | Error on second input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3805 / A 3806 |
| Alarm message | Error on third input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3807 / A 3808 |
| Alarm message | Error on fourth input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3809 / A 3810 |
| Alarm message | Error on fifth input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3811 / A 3812 |
| Alarm message | Error on sixth input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3813 / A 3814 |
| Alarm message | Error on seventh input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3815 / A 3816 |
| Alarm message | Error on eight input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3817 / A 3818 |
| Alarm message | Error on ninth input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3819 / A 3820 |
| Alarm message | Error on tenth input of the first io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3901 / A 3902 |
| Alarm message | Error on first output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3903 / A 3904 |
| Alarm message | Error on second output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3905 / A 3906 |
| Alarm message | Error on third output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3907 / A 3908 |
| Alarm message | Error on fourth output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3909 / A 3910 |
| Alarm message | Error on fifth output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3911 / A 3912 |
| Alarm message | Error on sixth output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3913 / A 3914 |
| Alarm message | Error on seventh output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3915 / A 3916 |
| Alarm message | Error on eight output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3917 / A 3918 |
| Alarm message | Error on ninth output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

| | |
|-------------------|--|
| Alarm code | A 3919 / A 3920 |
| Alarm message | Error on tenth output of the second io extension board |
| Cause | <ul style="list-style-type: none"> • Wrong wiring (short circuit) • Hardware defect |
| Remedy | <ul style="list-style-type: none"> • Check wiring of the output (short circuit) • Check Hardware |

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

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

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

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

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

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

| | |
|-------------------|--|
| Alarm code | A 4013 / A 4014 |
| Alarm message | Anticlockwise and clockwise rotation SDI7 have been activated simultaneously |
| Cause | Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SDI17 are activated simultaneously |
| Remedy | <ul style="list-style-type: none"> • Check the logic of the SDI function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis |

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

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

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

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

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

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

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

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

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

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

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

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

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

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|-------------------|--|
| Alarm code | A 4617 / A 4618 |
| Alarm message | Monitoring range left and right of SLP9 activated at the same time |
| Cause | Multiple activation CW (Clockwise) and CCW (Counter clockwise) input on function block SLP10 are activated simultaneously |
| Remedy | <ul style="list-style-type: none"> • Check the logic of the SLP function blocks in the application program • Check the levels of the connected inputs for the application program • Analyse the input and logic signals using the device function block diagnosis |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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|-------------------|---|
| Alarm code | A 4673 / A 4674 |
| Alarm message | SLP1 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4675 / A 4676 |
| Alarm message | SLP2 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4677 / A 4678 |
| Alarm message | SLP3 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4679 / A 4680 |
| Alarm message | SLP4 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4681 / A 4682 |
| Alarm message | SLP5 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4683 / A 4684 |
| Alarm message | SLP6 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4685 / A 4686 |
| Alarm message | SLP7 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4687 / A 4688 |
| Alarm message | SLP8 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4689 / A 4690 |
| Alarm message | SLP9 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4691 / A 4692 |
| Alarm message | SLP10 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4693 / A 4694 |
| Alarm message | SLP11 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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|-------------------|---|
| Alarm code | A 4695 / A 4696 |
| Alarm message | SLP12 Teach in SOS activation error |
| Cause | During „teach in“ the drive has operated (SOS error) |
| Remedy | <ul style="list-style-type: none"> • When using the „teach in“ function, the drive must be off • Check whether SOS has already actuated |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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|-------------------|---|
| Alarm code | A 5141 / A 5142 |
| Alarm message | Pulse fault Input.1 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5143 / A 5144 |
| Alarm message | Pulse fault Input.2 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5145 / A 5146 |
| Alarm message | Pulse fault Input.3 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5147 / A 5148 |
| Alarm message | Pulse fault Input.4 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5149 / A 5150 |
| Alarm message | Pulse fault Input.5 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5151 / A 5152 |
| Alarm message | Pulse fault Input.6 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5153 / A 5154 |
| Alarm message | Pulse fault Input.7 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5155 / A 5156 |
| Alarm message | Pulse fault Input.8 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5157 / A 5158 |
| Alarm message | Pulse fault Input.9 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5159 / A 5160 |
| Alarm message | Pulse fault Input.10 on first io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5161 / A 5162 |
| Alarm message | Pulse fault Input.1 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5163 / A 5164 |
| Alarm message | Pulse fault Input.2 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5165 / A 5166 |
| Alarm message | Pulse fault Input.3 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5167 / A 5168 |
| Alarm message | Pulse fault Input.4 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5169 / A 5170 |
| Alarm message | Pulse fault Input.5 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5171 / A 5172 |
| Alarm message | Pulse fault Input.6 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5173 / A 5174 |
| Alarm message | Pulse fault Input.7 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5175 / A 5176 |
| Alarm message | Pulse fault Input.8 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5177 / A 5178 |
| Alarm message | Pulse fault Input.9 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 5179 / A 5180 |
| Alarm message | Pulse fault Input.10 on second io extension board |
| Cause | Unexpected status of pulse input |
| Remedy | <ul style="list-style-type: none"> • Check wiring of digital inputs • Check configuration of digital inputs |

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|-------------------|--|
| Alarm code | A 6001 / A 6002 |
| Alarm message | Digital input Test |
| Cause | The input failure on the first IO extension board. |
| Remedy | <ul style="list-style-type: none"> • The input diagnoses caused this error • Check configuration of digital inputs |

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|-------------------|--|
| Alarm code | A 6003 / A 6004 |
| Alarm message | Digital input Test |
| Cause | The input failure on the second IO extension board. |
| Remedy | <ul style="list-style-type: none"> • The input diagnoses caused this error • Check configuration of digital inputs |

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|-------------------|---|
| Alarm code | A 6009 / A 6010 |
| Alarm message | The 24 V supply test of Digital input |
| Cause | The DI tests on first extension board its supply and this test was not successful |
| Remedy | <ul style="list-style-type: none"> • Check 24V input voltage of all OSSD inputs • Power Reset |

| | |
|-------------------|---|
| Alarm code | A 6011 / A 6012 |
| Alarm message | The 24 V supply test of Digital input |
| Cause | The DI tests on second extension board its supply and this test was not successful |
| Remedy | <ul style="list-style-type: none"> • Check 24V input voltage of all OSSD inputs • Power Reset |

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

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|-------------------|--|
| Alarm code | A 7601 / A 7602 |
| Alarm message | Invalid FSoE command |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7603 / A 7604 |
| Alarm message | Unknown FSoE command |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7605 / A 7606 |
| Alarm message | Invalid connection ID |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7607 / A 7608 |
| Alarm message | Invalid CRC |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7609 / A 7610 |
| Alarm message | Watchdog expired |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7611 / A 7612 |
| Alarm message | Invalid slave address |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7613 / A 7614 |
| Alarm message | Invalid process data |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7615 / A 7616 |
| Alarm message | Invalid parameter data length communication |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7617 / A 7618 |
| Alarm message | Invalid watchdog timeout |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7619 / A 7620 |
| Alarm message | Invalid parameter data length application |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7621 / A 7622 |
| Alarm message | Invalid parameter data application |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7631 / A 7632 |
| Alarm message | Internal FSoE Master Error |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7633 / A 7634 |
| Alarm message | Invalid FSoE Master instance |
| Cause | Wrong FSoE configuration |
| Remedy | <ul style="list-style-type: none"> • Check FSoE configuration |

| | |
|-------------------|--|
| Alarm code | A 7689 / A 7690 |
| Alarm message | FSoE Disconnect Block timeout error |
| Cause | FSoE slave doesn't react during the configured time |
| Remedy | <ul style="list-style-type: none"> • Wrong timeout time • Check FSoE slave |

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|-------------------|--|
| Alarm code | A 7691 / A 7692 |
| Alarm message | Synchronisation of two slave devices is wrong |
| Cause | Slave devices don't run synchronously |
| Remedy | <ul style="list-style-type: none"> • Restart the system |

| | |
|-------------------|--|
| Alarm code | A 9205 / A 9206 |
| Alarm message | SARC calculation error block "ADD" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9207 / A 9208 |
| Alarm message | SARC calculation error block "DIV" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9209 / A 9210 |
| Alarm message | SARC calculation error block "SQRT" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9211 / A 9212 |
| Alarm message | SARC calculation error block "SIN" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9213 / A 9214 |
| Alarm message | SARC calculation error block "ASIN" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9215 / A 9216 |
| Alarm message | SARC calculation error block "COS" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9217 / A 9218 |
| Alarm message | SARC calculation error block "ACOS" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9219 / A 9220 |
| Alarm message | SARC calculation error block "TAN" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9221 / A 9222 |
| Alarm message | SARC calculation error block "ATAN" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9223 / A 9224 |
| Alarm message | SARC calculation error block "MMUL" |
| Cause | Wrong SARC block calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9225 / A 9226 |
| Alarm message | SARC calculation error block "LD" |
| Cause | Wrong assignment to block |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9227 / A 9228 |
| Alarm message | SARC calculation error block "ST" |
| Cause | Wrong assignment to block |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9231 / A 9232 |
| Alarm message | Different virtual speed calculated |
| Cause | Wrong SARC calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9233 / A 9234 |
| Alarm message | Different virtual position calculated |
| Cause | Wrong SARC calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|---|
| Alarm Code | A 9235 / A 9236 |
| Alarm message | The virtual analog value deviates from the calculated value |
| Cause | Incorrect SARC calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application. |

| | |
|-------------------|--|
| Alarm code | A 9241 / A 9242 |
| Alarm message | Calculated virtual speed out of range |
| Cause | Wrong SARC calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9243 / A 9244 |
| Alarm message | Calculated virtual speed outside of the range. |
| Cause | Wrong SARC calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9245 / A 9246 |
| Alarm message | Calculated virtual analog value outside of the range. |
| Cause | Wrong SARC calculation |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9247 / A 9248 |
| Alarm message | Calculated value outside of the matrix |
| Cause | Wrong SARC calculation |
| Remedy | Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9251 / A 9252 |
| Alarm message | SARC calculation error block "MUL" |
| Cause | Wrong assignment to block |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9253 / A 9254 |
| Alarm message | SARC calculation error block "ABS" |
| Cause | Wrong assignment to block |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|--|
| Alarm code | A 9255 / A 9256 |
| Alarm message | SARC calculation error block "NEG" |
| Cause | Wrong assignment to block |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application |

| | |
|-------------------|---|
| Alarm Code | A 9257 / A 9258 |
| Alarm message | SARC calculation error in block 'IF'. |
| Cause | Incorrect assignment to the block |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application. |

| | |
|-------------------|---|
| Alarm Code | A 9259 / A 9260 |
| Alarm message | SARC calculation error in block "MUX" |
| Cause | Incorrect assignment to the block |
| Remedy | <ul style="list-style-type: none"> • Check SARC configuration data or application. |

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|-------------------|---|
| Alarm code | A 9261 / A 9262 |
| Alarm message | Virtual speed axis0 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9263 / A 9264 |
| Alarm message | Virtual speed axis1 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9265 / A 9266 |
| Alarm message | Virtual speed axis2 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9267 / A 9268 |
| Alarm message | Virtual speed axis3 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9269 / A 9270 |
| Alarm message | Virtual speed axis4 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9271 / A 9272 |
| Alarm message | Virtual speed axis5 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9273 / A 9274 |
| Alarm message | Virtual speed axis6 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9275 / A 9276 |
| Alarm message | Virtual speed axis7 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9277 / A 9278 |
| Alarm message | Virtual speed axis8 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9279 / A 9280 |
| Alarm message | Virtual speed axis9 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9281 / A 9282 |
| Alarm message | Virtual speed axis10 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9283 / A 9284 |
| Alarm message | Virtual speed axis11 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9285 / A 9286 |
| Alarm message | Virtual speed axis12 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9287 / A 9288 |
| Alarm message | Virtual speed axis13 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9289 / A 9290 |
| Alarm message | Virtual speed axis14 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9291 / A 9292 |
| Alarm message | Virtual speed axis15 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9293 / A 9294 |
| Alarm message | Virtual speed axis16 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9295 / A 9296 |
| Alarm message | Virtual speed axis17 out of configured max. speed range |
| Cause | Virtual speed out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|--|
| Alarm code | A 9297 / A 9298 |
| Alarm message | Virtual speed of Axis 18 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9299 / A 9300 |
| Alarm message | Virtual speed of Axis 19 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9301 / A 9302 |
| Alarm message | Virtual speed of Axis 20 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9303 / A 9304 |
| Alarm message | Virtual speed of Axis 21 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9305 / A 9306 |
| Alarm message | Virtual speed of Axis 22 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9307 / A 9308 |
| Alarm message | Virtual speed of Axis 23 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9309 / A 9310 |
| Alarm message | Virtual speed of Axis 24 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9311 / A 9312 |
| Alarm message | Virtual speed of Axis 25 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9313 / A 9314 |
| Alarm message | Virtual speed of Axis 26 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9315 / A 9316 |
| Alarm message | Virtual speed of Axis 27 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9317 / A 9318 |
| Alarm message | Virtual speed of Axis 28 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9319 / A 9320 |
| Alarm message | Virtual speed of Axis 29 out of configured max. speed range |
| Cause | Virtual speed outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|---|
| Alarm code | A 9321 / A 9322 |
| Alarm message | Virtual position axis0 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9323 / A 9324 |
| Alarm message | Virtual position axis1 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9325 / A 9326 |
| Alarm message | Virtual position axis2 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9327 / A 9328 |
| Alarm message | Virtual position axis3 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9329 / A 9330 |
| Alarm message | Virtual position axis4 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9331 / A 9332 |
| Alarm message | Virtual position axis5 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9333 / A 9334 |
| Alarm message | Virtual position axis6 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9335 / A 9336 |
| Alarm message | Virtual position axis7 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9337 / A 9338 |
| Alarm message | Virtual position axis8 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9339 / A 9340 |
| Alarm message | Virtual position axis9 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9341 / A 9342 |
| Alarm message | Virtual position axis10 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9343 / A 9344 |
| Alarm message | Virtual position axis11 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9345 / A 9346 |
| Alarm message | Virtual position axis12 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9347 / A 9348 |
| Alarm message | Virtual position axis13 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9349 / A 9350 |
| Alarm message | Virtual position axis14 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9351 / A 9352 |
| Alarm message | Virtual position axis15 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9353 / A 9354 |
| Alarm message | Virtual position axis16 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|---|
| Alarm code | A 9355 / A 9356 |
| Alarm message | Virtual position axis17 out of configured measuring length |
| Cause | Virtual position out of configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of virtual axis |

| | |
|-------------------|--|
| Alarm code | A 9357 / A 9358 |
| Alarm message | Virtual position of Axis 18 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9359 / A 9360 |
| Alarm message | Virtual position of Axis 19 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9361 / A 9362 |
| Alarm message | Virtual position of Axis 20 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9363 / A 9364 |
| Alarm message | Virtual position of Axis 21 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9365 / A 9366 |
| Alarm message | Virtual position of Axis 22 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9367 / A 9368 |
| Alarm message | Virtual position of Axis 23 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9369 / A 9370 |
| Alarm message | Virtual position of Axis 24 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9371 / A 9372 |
| Alarm message | Virtual position of Axis 25 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9373 / A 9374 |
| Alarm message | Virtual position of Axis 26 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9375 / A 9376 |
| Alarm message | Virtual position of Axis 27 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9377 / A 9378 |
| Alarm message | Virtual position of Axis 28 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9379 / A 9380 |
| Alarm message | Virtual position of Axis 29 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9381 / A 9382 |
| Alarm message | Virtual position of Axis 30 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9383 / A 9384 |
| Alarm message | Virtual position of Axis 31 outside the configured measurement range. |
| Cause | Virtual position outside the configured range. |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9417 (Internal) |
| Alarm message | Invalid SRA parameter from Safeplc received. The SRA parameter length must not be zero |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> • Update firmware |

| | |
|-------------------|---|
| Alarm code | A 9419 (Internal) |
| Alarm message | Invalid Acknowledge received from the EtherCAT master or the Slave. e.g. if the SCU makes login request and it receive the ACK from another request 5 times then this alarm will occur |
| Cause | Faulty ack for the coe request |
| Remedy | <ul style="list-style-type: none"> • Do not send the Faulty ack to the SCU |

| | |
|-------------------|--|
| Alarm code | A 9451 / A 9452 |
| Alarm message | Virtual analog value Index 0 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9453 / A 9454 |
| Alarm message | Virtual analog value Index 1 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9454 / A 9455 |
| Alarm message | Virtual analog value Index 2 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9456 / A 9457 |
| Alarm message | Virtual analog value Index 3 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9458 / A 9459 |
| Alarm message | Virtual analog value Index 4 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9461 / A 9462 |
| Alarm message | Virtual analog value Index 5 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9463 / A 9464 |
| Alarm message | Virtual analog value Index 6 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9465 / A 9466 |
| Alarm message | Virtual analog value Index 7 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9467 / A 9468 |
| Alarm message | Virtual analog value Index 8 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9469 / A 9470 |
| Alarm message | Virtual analog value Index 9 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9471 / A 9472 |
| Alarm message | Virtual analog value Index 10 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9473 / A 9474 |
| Alarm message | Virtual analog value Index 11 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9475 / A 9476 |
| Alarm message | Virtual analog value Index 12 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9477 / A 9478 |
| Alarm message | Virtual analog value Index 13 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9479 / A 9480 |
| Alarm message | Virtual analog value Index 14 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9481 / A 9482 |
| Alarm message | Virtual analog value Index 15 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9483 / A 9484 |
| Alarm message | Virtual analog value Index 16 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9485 / A 9486 |
| Alarm message | Virtual analog value Index 17 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9487 / A 9488 |
| Alarm message | Virtual analog value Index 18 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9489 / A 9490 |
| Alarm message | Virtual analog value Index 19 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9491 / A 9492 |
| Alarm message | Virtual analog value Index 20 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9493 / A 9494 |
| Alarm message | Virtual analog value Index 21 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9495 / A 9496 |
| Alarm message | Virtual analog value Index 22 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9497 / A 9498 |
| Alarm message | Virtual analog value Index 23 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9499 / A 9500 |
| Alarm message | Virtual analog value Index 24 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9501 / A 9502 |
| Alarm message | Virtual analog value Index 25 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9503 / A 9504 |
| Alarm message | Virtual analog value Index 26 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9505 / A 9506 |
| Alarm message | Virtual analog value Index 27 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9507 / A 9508 |
| Alarm message | Virtual analog value Index 28 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9509 / A 9510 |
| Alarm message | Virtual analog value Index 29 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9511 / A 9512 |
| Alarm message | Virtual analog value Index 30 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9513 / A 9514 |
| Alarm message | Virtual analog value Index 31 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9601 / A 9602 |
| Alarm message | Virtual speed value Index 30 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

| | |
|-------------------|--|
| Alarm code | A 9603 / A 9604 |
| Alarm message | Virtual speed value Index 31 outside the configured measurement range. |
| Cause | Virtual analog value outside the configured range |
| Remedy | <ul style="list-style-type: none"> • Check configuration of the virtual axis. |

3 Fatal Error

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

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

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

| | |
|-------------------------|--|
| Fatal Error Code | F 1031 / F1032 |
| Fault message | Faulty PMT offset table within the TOC. |
| Cause | The PMT data is faulty. |
| Remedy | <ul style="list-style-type: none"> • Ensure that compatible programming software was used. • Resend the configuration to the device. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1033 / F1034 |
| Fault message | Maximum number of PMT parameters exceeded. |
| Cause | The number of allowable PMT parameters exceeds the maximum limit. |
| Remedy | <ul style="list-style-type: none"> • Reduce the number of PMT parameters (<1000). • Ensure that compatible programming software was used. • Resend the configuration to the device. |

| | |
|-------------------------|--|
| Fatal Error Code | F 1035 / F1036 |
| Fault message | PMT parameter list does not match configuration. |
| Cause | The number of parameters in the parameter list exceeds the available parameters in the configuration. |
| Remedy | <ul style="list-style-type: none"> • Ensure that compatible programming software was used and that the correct PMT project is being used. • Ensure that the assembly has been initialized with the PMT project. • Resend the configuration to the device. |

| | |
|-------------------------|--|
| Fatal Error Code | F 1037 / F1038 |
| Fault message | The CRC of the PMT parameter list is incorrect. |
| Cause | The checksum of the PMT parameters is incorrect. |
| Remedy | <ul style="list-style-type: none"> • Ensure that compatible programming software was used. • Transfer the PMT parameters to the device again. • Power cycle the device. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1041 / F1042 |
| Fault message | PMT parameter structure not found. |
| Cause | PMT is enabled by export, but no parameter structure is present. |
| Remedy | <ul style="list-style-type: none"> • Ensure that the device is loaded with the correct PMT project. • Send the PMT parameters to the device via the PMT software. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1051 / F1052 |
| Fault message | CRC AFB discrepancy (invalid or mismatched PMT project). |
| Cause | CRC_AFB from CRC table does not match TOC CRC in flash. |
| Remedy | <ul style="list-style-type: none"> • Ensure that the device is loaded with a correct PMT project. • Ensure that the used PMT project is consistent. • Transfer the PMT parameters to the device again. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1053 / F1054 |
| Fault message | CRC LDV discrepancy (invalid or mismatched PMT project). |
| Cause | The calculated CRC_LDV does not match the CRC_LDV from the CRC table (logic data, PLC program). |
| Remedy | <ul style="list-style-type: none"> • Ensure that the device is loaded with a correct PMT project. • Ensure that the used PMT project is consistent. • Transfer the PMT parameters to the device again. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1055 / F1056 |
| Fault message | CRC PDV discrepancy (invalid or mismatched PMT project). |
| Cause | The calculated TOC overall CRC after PMT application does not match the transferred CRC from the CRC table. |
| Remedy | <ul style="list-style-type: none"> • Ensure that the device is loaded with a correct PMT project. • Ensure that the used PMT project is consistent. • Transfer the PMT parameters to the device again. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1057 / F1058 |
| Fault message | CRC PEV discrepancy (invalid or mismatched PMT project). |
| Cause | The calculated TOC overall CRC after PMT application does not match the transferred CRC from the CRC table. |
| Remedy | <ul style="list-style-type: none"> • Ensure that the device is loaded with a correct PMT project. • Ensure that the used PMT project is consistent. • Transfer the PMT parameters to the device again. |

| | |
|-------------------------|--|
| Fatal Error Code | F 1059 / F1060 |
| Fault message | PMT parameter could not be written/found in configuration. |
| Cause | An error occurred while writing a parameter. The parameter could not be found or written. |
| Remedy | <ul style="list-style-type: none"> • Ensure that compatible programming software was used. • Transfer the PMT parameters to the device again. • Ensure that the correct PMT project is used for the device. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1311 / F 1312 (Internal) |
| Error message | Error while erasing the configuration flash |
| Cause | - |
| Remedy | <ul style="list-style-type: none"> • Check FW Version and Version of the application software • Send the configuration again • Power Cycle • Replace device |

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

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

| | |
|-------------------------|--|
| Fatal Error Code | F 1406 |
| Error message | Faulty data packet: firmware parameter. |
| Cause | Invalid data packet size. |
| Remedy | <ul style="list-style-type: none"> • Resend firmware parameters. • Transfer configuration data again. • Power cycle the device. |

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

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

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

| | |
|-------------------------|---|
| Fatal Error Code | F 1415 / F 1416 |
| Fault message | System A has a different AWL Linker program than System B |
| Cause | Configuration data or program data were incorrectly transferred |
| Remedy | <ul style="list-style-type: none"> • Transfer configuration data or program data again |

| | |
|-------------------------|---|
| Fatal Error Code | F 1417 / F 1418 |
| Fault message | System A has a different AWL Fastchannel Linker program than System B |
| Cause | Configuration data or program data were incorrectly transferred |
| Remedy | <ul style="list-style-type: none"> • Transfer configuration data or program data again |

| | |
|-------------------------|---|
| Fatal Error Code | F 1421 / F 1422 |
| Fault message | Linker error unknown command |
| Cause | Wrong linker code or not supported functionality |
| Remedy | <ul style="list-style-type: none"> • Transfer configuration data or program data again • Check configuration data for supported functionality |

| | |
|-------------------------|---|
| Fatal Error Code | F 1423 / F 1424 |
| Fault message | Linker error fastchannel unknown command |
| Cause | Wrong linker code fastchannel or not supported functionality |
| Remedy | <ul style="list-style-type: none"> • Transfer configuration data or program data again • Check configuration data for supported functionality |

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

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

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

| | |
|-------------------------|---|
| Fatal Error Code | F 1511 / F 1512 (Internal) |
| Error message | Error at sequential calculation of KRS process data CRC |
| Cause | Wrong CRC calculation |
| Remedy | <ul style="list-style-type: none"> • Check firmware of device. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1513 / F 1514 (Internal) |
| Error message | CRC of the static KRS process data is invalid |
| Cause | Static process data were changed |
| Remedy | <ul style="list-style-type: none"> • Transfer firmware data again. • Check FRAM Hardware. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1515 / F 1516 (Internal) |
| Error message | CRC of the static KRS process data to System B is invalid |
| Cause | Different static process data in System A and B |
| Remedy | <ul style="list-style-type: none"> • Transfer firmware data again. • Check FRAM Hardware. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1520 - F 1524 (Internal) |
| Error message | Range check error of configuration data SMMC |
| Cause | 1520 IDSMC invalid |
| | 1521 General flag is wrong for SMMC |
| | 1522 Cycle is wrong for SMMC it must be greater than 16 |
| | 1523 Timeout is wrong for SMMC it must be greater than 16 |
| | 1524 SMMC address is wrong it must be in between 0 and 3 |
| Remedy | <ul style="list-style-type: none"> • Check configuration data and transfer them again. |

| | |
|-------------------------|---|
| Fatal Error Code | F 1525 - F 1530 (Internal) |
| Error message | Range check error of configuration data SLAVE AXIS CFG from profile |
| Cause | 1525 IDSLAVEAXIS invalid |
| | 1526 General flag is wrong for SLAVE AXIS |
| | 1527 SLAVE AXIS axis is wrongly configured |
| | 1528 SLAVE AXIS modes is wrong |
| | 1529 SLAVE AXIS the factor speed is zero |
| | 1530 SLAVE AXIS the factor position is zero |
| Remedy | <ul style="list-style-type: none"> • Check configuration data and transfer them again. |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1531 - F 1536 (Internal) | |
| Error message | Range check error of configuration data SLA | |
| Cause | 1531 | IDSLA invalid |
| | 1532 | General flag is wrong for SLA |
| | 1533 | SLA mode is wrongly configured |
| | 1534 | SLA Speed Max is wrongly configured |
| | 1535 | SLA max acceleration is wrongly configured |
| | 1536 | SLA Axis is wrong configured |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1540 - F 1554 (Internal) | |
| Error message | Range check error of configuration data FBus Slave | |
| Cause | 1540 | invalid classID |
| | 1541 | FBus type not supported |
| | 1542 | FBus address invalid |
| | 1543 | FBus Alarm Reset is invalid |
| | 1544 | Length of process data is invalid |
| | 1545 | Length of binary data PAE/PAA is invalid |
| | 1546 | Process data profile PAE is invalid |
| | 1547 | Process data profile PAA is invalid |
| | 1548 | Scaling factor process data is invalid |
| | 1549 | FBus Block Reset is invalid |
| | 1550 | Not used |
| | 1551 | Not used |
| | 1552 | Not used |
| | 1553 | Not used |
| 1554 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|-------------------------------|
| Fatal Error Code | F 1555 - F 1564 (Internal) | |
| Error message | Range check error of configuration data SRS. | |
| Cause | 1555 | classID invalid |
| | 1556 | Limit of GeneralFlag exceeded |
| | 1557 | Axis mapping is invalid |
| | 1558 | Not used |
| | 1559 | Not used |
| | 1560 | Not used |
| | 1561 | Not used |
| | 1562 | Not used |
| | 1563 | Not used |
| | 1564 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|-------------------------------|
| Fatal Error Code | F 1565 - F 1574 (Internal) | |
| Error message | Range check error of configuration data FlipFlop. | |
| Cause | 1565 | classID invalid |
| | 1566 | Limit of GeneralFlag exceeded |
| | 1567 | Invalid mode |
| | 1568 | Type not supported |
| | 1569 | Not used |
| | 1570 | Not used |
| | 1571 | Not used |
| | 1572 | Not used |
| | 1573 | Not used |
| | 1574 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1575 - F 1584 (Internal) | |
| Error message | Range check error of configuration data slave devices. | |
| Cause | 1575 | classID invalid |
| | 1576 | Limit of GeneralFlag exceeded |
| | 1577 | Second encoder box is not supported |
| | 1578 | Profile number of slave device is not supported |
| | 1579 | Slave configuration CRC is unequal to FSoE SafeParam configuration CRC |
| | 1580 | Not used |
| | 1581 | Not used |
| | 1582 | Not used |
| | 1583 | Not used |
| 1584 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|---|
| Fatal Error Code | F 1585 - F 1594 (Internal) | |
| Error message | Range check error of configuration data FDB. | |
| Cause | 1585 | classID invalid |
| | 1586 | Limit of GeneralFlag exceed |
| | 1587 | Configured address invalid (!= 0) |
| | 1588 | Configured address is already configured (Address is duplicate) |
| | 1589 | Configured timer value is invalid (!= 0) |
| | 1590 | Not used |
| | 1591 | Not used |
| | 1592 | Not used |
| | 1593 | Not used |
| 1594 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|--|--|
| Fatal Error Code | F 1595 - F 1597 (Intern) | |
| Error message | Range check of configuration data FDB faulty. | |
| Cause | 1595 | classID invalid |
| | 1596 | Limit of GeneralFlag exceed |
| | 1597 | All configurable bools pass through if (mode > 3). |
| Remedy | <ul style="list-style-type: none"> Check configuration data and resend. | |

| | | |
|-------------------------|---|---|
| Fatal Error Code | F 1601 - F 1614 (Internal) | |
| Error message | Range check error of configuration data SCA. | |
| Cause | 1600 | classID invalid |
| | 1601 | Maximum values of GeneralFlag exceeded |
| | 1602 | Maximum values of mapped axis exceeded |
| | 1603 | Maximum values of speed threshold exceeded |
| | 1604 | Maximum values of low position limit exceeded |
| | 1605 | Maximum values of high position limit exceeded |
| | 1606 | Maximum values of maximum acceleration with active integral filter exceeded |
| | 1607 | Maximum values of modes exceeded |
| | 1608 | Maximum values of direction exceeded |
| | 1609 | SEL doesn't exist or doesn't match with the axis |
| | 1610 | SLP doesn't exist or doesn't match with the axis |
| | 1611 | Reset invalid |
| | 1612 | Position processing invalid |
| | 1613 | Not used |
| 1614 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| Fatal Error Code | | F 1615 - F 1629 (Internal) | |
|-------------------------|----------|---|--|
| Error message | | Range check error of configuration data SSX. | |
| Cause | 1615 | classID invalid | |
| | 1616 | Maximum values of GeneralFlag exceeded | |
| | 1617 | Maximum values of mapped axis exceeded | |
| | 1618 | Maximum values of type exceeded | |
| | 1619 | Maximum values of TypCurve exceeded | |
| | 1620 | Maximum values of latency time exceeded | |
| | 1621 | Maximum values of speed tolerance exceeded | |
| | 1622 | Maximum values of maximum acceleration exceeded | |
| | 1623 | Maximum values of acceleration change exceeded | |
| | 1624 | Not used | |
| | 1625 | Not used | |
| | 1626 | Not used | |
| 1627 | Not used | | |
| 1628 | Not used | | |
| 1629 | Not used | | |
| Remedy | | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| Fatal Error Code | | F 1630 - F 1644 (Internal) | |
|-------------------------|----------|---|--|
| Error message | | Range check error of configuration data SEL. | |
| Cause | 1630 | classID invalid | |
| | 1631 | Maximum values of GeneralFlag exceeded | |
| | 1632 | Maximum values of mapped axis exceeded | |
| | 1633 | Maximum values of TypCurve exceeded | |
| | 1634 | Limit values for minimum position invalid | |
| | 1635 | Limit values for maximum position invalid | |
| | 1636 | Maximum values of latency time exceeded | |
| | 1637 | Limit values for max. speed exceeded | |
| | 1638 | Limit values for max. acceleration exceeded | |
| | 1639 | Limit values for max. change in acceleration exceeded | |
| | 1640 | Reset invalid | |
| | 1641 | Not used | |
| | 1642 | Not used | |
| | 1643 | Not used | |
| 1644 | Not used | | |
| Remedy | | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| Fatal Error Code | | F 1645 - F 1659 (Internal) | |
|-------------------------|----------|---|--|
| Error message | | Range check error of configuration data SLP. | |
| Cause | 1645 | classID invalid | |
| | 1646 | Maximum values of GeneralFlag exceeded | |
| | 1647 | Maximum values of mapped axis exceeded | |
| | 1648 | Maximum values of TypCurve exceeded | |
| | 1649 | TeachIn function not supported | |
| | 1650 | Maximum values of upper position limit exceeded | |
| | 1651 | Maximum values of latency time exceeded | |
| | 1652 | Maximum values of maximum speed exceeded | |
| | 1653 | Maximum values of maximum acceleration exceeded | |
| | 1654 | Maximum values of AccDiffMax exceeded | |
| | 1655 | Not used | |
| | 1656 | Maximum values of direction exceeded | |
| | 1657 | Reset invalid | |
| | 1658 | Not used | |
| 1659 | Not used | | |
| Remedy | | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1660 - F 1669 (Internal) | |
| Error message | Range check error of configuration data SOS. | |
| Cause | 1660 | classID invalid |
| | 1661 | Maximum values of GeneralFlag exceeded |
| | 1662 | Maximum values for axis mapping |
| | 1663 | Maximum values of Modes exceeded |
| | 1664 | Maximum values of speed limit or position limit exceeded |
| | 1665 | Maximum values of acceleration exceeded |
| | 1666 | Reset invalid |
| | 1667 | Not used |
| | 1668 | Not used |
| 1669 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|---|
| Fatal Error Code | F 1670 - F 1679 (Internal) | |
| Error message | Range check error of configuration data SLS. | |
| Cause | 1670 | classID invalid |
| | 1671 | Maximum values of GeneralFlag exceeded |
| | 1672 | Maximum values of mapped axis exceeded |
| | 1673 | Maximum values of Modes exceeded |
| | 1674 | Maximum values of maximum speed value exceeded |
| | 1675 | Maximum values of maximum acceleration value exceeded |
| | 1676 | Mode SLS via SSX invalid |
| | 1677 | Reset invalid |
| | 1678 | Not used |
| 1679 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|---|
| Fatal Error Code | F 1680 - F 1689 (Internal) | |
| Error message | Range check error of configuration data SDI. | |
| Cause | 1680 | classID invalid |
| | 1681 | Maximum values of GeneralFlag exceeded |
| | 1682 | Invalid axis mapping |
| | 1683 | Maximum values of Modes exceeded |
| | 1684 | Maximum values for speed or position exceeded |
| | 1685 | Reset invalid |
| | 1686 | Not used |
| | 1687 | Not used |
| | 1688 | Not used |
| 1689 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1690 - F 1699 (Internal) | |
| Error message | Range check error of configuration data SAC. | |
| Cause | 1690 | classID invalid |
| | 1691 | Maximum values of GeneralFlag exceeded |
| | 1692 | Maximum values of LimitMin exceeded |
| | 1693 | Maximum values of LimitMax exceeded |
| | 1694 | Maximum values of LimitHyst exceeded |
| | 1695 | Maximum values of source exceeded |
| | 1696 | Maximum values of Mode exceeded |
| | 1697 | Not used |
| | 1698 | Not used |
| 1699 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1700 - F 1709 (Internal) | |
| Error message | Range check error of configuration data SLI. | |
| Cause | 1700 | classID invalid |
| | 1701 | Maximum values of GeneralFlag exceeded |
| | 1702 | Maximum values of mapped axis exceeded |
| | 1703 | Maximum values of Limit (Position) exceeded |
| | 1704 | Maximum values of step width (Position) exceeded |
| | 1705 | Maximum values of ActivationSource exceeded |
| | 1706 | Reset invalid |
| | 1707 | Not used |
| | 1708 | Not used |
| 1709 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1710 - F 1719 (Internal) | |
| Error message | Range check error of configuration data STO. | |
| Cause | 1710 | classID invalid |
| | 1711 | Maximum values of GeneralFlag exceeded |
| | 1712 | Not used |
| | 1713 | Not used |
| | 1714 | Not used |
| | 1715 | Not used |
| | 1716 | Not used |
| | 1717 | Not used |
| | 1718 | Not used |
| 1719 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|---|
| Fatal Error Code | F 1720 - F 1729 (Internal) | |
| Error message | Range check error of configuration data SSM. | |
| Cause | 1720 | classID invalid |
| | 1721 | Maximum values of GeneralFlag exceeded |
| | 1722 | Maximum values of supervision time exceeded |
| | 1723 | Maximum values of Parameter_1 exceeded |
| | 1724 | Maximum values of Parameter_2 exceeded |
| | 1725 | Not used |
| | 1726 | Not used |
| | 1727 | Not used |
| | 1728 | Not used |
| 1729 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|---|
| Fatal Error Code | F 1730 - F 1739 (Internal) | |
| Error message | Range check error of configuration data SLT. | |
| Cause | 1730 | classID invalid |
| | 1731 | Maximum values of GeneralFlag exceeded |
| | 1732 | Maximum values of torque threshold exceeded |
| | 1733 | Maximum values of Mode exceeded |
| | 1734 | Not used |
| | 1735 | Not used |
| | 1736 | Not used |
| | 1737 | Not used |
| | 1738 | Not used |
| 1739 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1740 - F 1749 (Internal) | |
| Error message | Range check error of configuration data SREF. | |
| Cause | 1740 | classID invalid |
| | 1741 | Maximum values of GeneralFlag exceeded |
| | 1742 | AxisID is invalid |
| | 1743 | Mode is invalid |
| | 1744 | EOS Number is invalid |
| | 1745 | Reference position is outside of value range |
| | 1746 | Tolerance reference position is outside of value range |
| | 1747 | Entry EOS SDC/SSB configuration is invalid |
| | 1748 | Not used |
| 1749 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1750 - F 1759 (Internal) | |
| Error message | Range check error of configuration data I/O Reset. | |
| Cause | 1750 | classID invalid |
| | 1751 | Maximum values of GeneralFlag exceeded |
| | 1752 | Maximum values of configured digital inputs exceeded |
| | 1753 | Wrong Reset input |
| | 1754 | Reset input is invalid |
| | 1755 | Not used |
| | 1756 | Not used |
| | 1757 | Not used |
| | 1758 | Not used |
| 1759 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1760 - F 1769 (Internal) | |
| Error message | Range check error of configuration data Fastchannel. | |
| Cause | 1760 | classID invalid |
| | 1761 | Fastchannel Mode is invalid |
| | 1762 | Fastchannel input data first slave are invalid |
| | 1763 | Fastchannel input data second slave are invalid |
| | 1764 | Fastchannel output data Master are invalid |
| | 1765 | Fastchannel output data first slave are invalid |
| | 1766 | Fastchannel output data second slave are invalid |
| | 1767 | Not used |
| | 1768 | Not used |
| 1769 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| Fatal Error Code | | F 1770 - F 1794 (Internal) | |
|------------------|---|--|--|
| Error message | Range check error of configuration data Slave Axis Device. | | |
| Cause | 1770 | classID invalid | |
| | 1771 | Maximum values of GeneralFlag exceeded | |
| | 1772 | Not used | |
| | 1773 | Maximum values of Reset Mask exceeded | |
| | 1774 | Error in SMX_Link_TYP structure | |
| | 1775 | Error in EA_def | |
| | 1776 | Error in structure EMU_TYP | |
| | 1777 | Not used | |
| | 1778 | Error in structure SBT_TYP | |
| | 1779 | Error in EA_def_extended | |
| | 1780 | Error in Fastchannel_Input_Mode | |
| | 1781 | Error in Fastchannel_Output_Mode | |
| | 1782 | classID is invalid | |
| | 1783 | Maximum values of General Flag exceeded | |
| | 1784 | Maximum values of nominal torque exceeded | |
| | 1785 | Maximum values of torque constant exceeded | |
| | 1786 | Maximum values of torque filter time constant exceeded | |
| | 1787 | Maximum values of deviation exceeded | |
| | 1788 | Maximum values of motor pole pair number exceeded | |
| | 1789 | Maximum values of Encoder Offset exceeded | |
| 1790 | Error in structure EOR-TYP | | |
| 1791 | Not used | | |
| 1792 | Not used | | |
| 1793 | Not used | | |
| 1794 | Not used | | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | | |

| Fatal Error Code | | F 1795 - F 1819 (Internal) | |
|------------------|---|--|--|
| Error message | Range check error of configuration data Slave Axis Device (axis data). | | |
| Cause | 1795 | classID invalid | |
| | 1796 | Maximum values of GeneralFlag exceeded | |
| | 1797 | Not used | |
| | 1798 | Invalid scaling value for position | |
| | 1799 | Invalid scaling value for speed | |
| | 1800 | Not used | |
| | 1801 | Not used | |
| | 1802 | Not used | |
| | 1803 | Not used | |
| | 1804 | Not used | |
| | 1805 | Not used | |
| | 1806 | Not used | |
| | 1807 | Not used | |
| | 1808 | Not used | |
| | 1809 | Not used | |
| | 1810 | Not used | |
| | 1811 | Not used | |
| | 1812 | Not used | |
| | 1813 | Not used | |
| | 1814 | Not used | |
| 1815 | Not used | | |
| 1816 | Not used | | |
| 1817 | Not used | | |
| 1818 | Not used | | |
| 1819 | Not used | | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | | |

| Fatal Error Code | F 1820 - F 1844 (Internal) | |
|------------------|---|--|
| Error message | Range check error of configuration data Slave Axis Device (encoder data). | |
| Cause | 1820 | classID invalid |
| | 1821 | Maximum values of GeneralFlag exceeded |
| | 1822 | Maximum values of Modes exceeded |
| | 1823 | Not used |
| | 1824 | Maximum values of scaling (position) exceeded |
| | 1825 | Maximum values of scaling (speed) exceeded |
| | 1826 | Maximum values of Shiftval (position) exceeded |
| | 1827 | Maximum values of Shiftval (speed) exceeded |
| | 1828 | Maximum values of Statuslength exceeded |
| | 1829 | Maximum values of StatusIndex exceeded |
| | 1830 | Maximum values of SinCos tolerance exceeded |
| | 1831 | Maximum values of resolver parameter exceeded |
| | 1832 | Maximum values of offset exceeded |
| | 1833 | Maximum values of resolution exceeded |
| | 1834 | Maximum values of filter time exceeded |
| | 1835 | Maximum values of data length exceeded |
| | 1836 | Maximum values of DatenIndex exceeded |
| 1837 | Maximum values of StatusMaskErr exceeded | |
| 1838 | Maximum values of StatusMaskDef exceeded | |
| 1839 | Maximum values of frame length exceeded | |
| 1840 | Not used | |
| 1841 | Not used | |
| 1842 | Not used | |
| 1843 | Not used | |
| 1844 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| Fatal Error Code | F 1845 - F 1859 (Internal) | |
|------------------|---|---------------------------------|
| Error message | Range check error of configuration data Slave Axis Device (Encoder scaling). | |
| Cause | 1845 | Factorpos = 0 |
| | 1846 | Measuring range exceeded |
| | 1847 | passed measuring range exceeded |
| | 1848 | scaled position |
| | 1849 | Not used |
| | 1850 | Factorspeed = 0 |
| | 1851 | maximum speed exceeded |
| | 1852 | passed speed exceeded |
| | 1853 | scaled speed |
| | 1854 | Not used |
| | 1855 | Not used |
| | 1856 | Not used |
| | 1857 | Not used |
| 1858 | Not used | |
| 1859 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|---|
| Fatal Error Code | F 1860 - F 1869 (Internal) | |
| Error message | Range check error of configuration data EDM. | |
| Cause | 1860 | classID invalid |
| | 1861 | Maximum values of GeneralFlag exceeded |
| | 1862 | Maximum values of rising time exceeded |
| | 1863 | Maximum values of decay time exceeded |
| | 1864 | Number of set bits at reply exceeded |
| | 1865 | Number of set bits at activation exceeded |
| | 1866 | Not used |
| | 1867 | Not used |
| | 1868 | Not used |
| | 1869 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1870 - F 1874 (Internal) | |
| Error message | Range check error of Restart Block | |
| Cause | 1870 | classID invalid |
| | 1871 | Maximum values of GeneralFlag exceeded |
| | 1872 | Mode invalid |
| | 1873 | Time value invalid |
| | 1874 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1905 - F 1924 (Internal) | |
| Error message | Range check error of configuration data FBUS. | |
| Cause | 1905 | classID invalid |
| | 1906 | Maximum values of GeneralFlag exceeded |
| | 1907 | Connection ID is invalid |
| | 1908 | Slave address is invalid |
| | 1909 | Application parameter are invalid |
| | 1910 | Watchdog Timeout is invalid |
| | 1911 | PAE length is invalid |
| | 1912 | PAA length is invalid |
| | 1913 | Not used |
| | 1914 | PDI/PDO size more than allowed 256 bytes. Reduce the number of FSoE slaves |
| | 1915 | Not used |
| | 1916 | Not used |
| | 1917 | Not used |
| | 1918 | Not used |
| | 1919 | Not used |
| | 1920 | Not used |
| | 1921 | Not used |
| | 1922 | Not used |
| 1923 | Slave address is not unique | |
| 1924 | Connection ID is not unique | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| Fatal Error Code | | F 1935 - F 1949 (Internal) | |
|-------------------------|------|---|--|
| Error message | | Range check error of configuration data FDataExchange. | |
| Cause | 1935 | classID invalid | |
| | 1936 | Maximum values of GeneralFlag exceeded | |
| | 1937 | Process data input length position is invalid | |
| | 1938 | Process data input length speed is invalid | |
| | 1939 | Process data input length acceleration is invalid | |
| | 1940 | Not used | |
| | 1941 | Not used | |
| | 1942 | Not used | |
| | 1943 | Not used | |
| | 1944 | Not used | |
| | 1945 | Not used | |
| | 1946 | Not used | |
| Remedy | | <ul style="list-style-type: none"> • Check configuration data and transfer them again. | |

| Fatal Error Code | | F 1950 - F 1954 (Internal) | |
|-------------------------|------|---|--|
| Error message | | Range check error of configuration data LinkTable. | |
| Cause | 1950 | classID invalid | |
| | 1951 | Maximum values of GeneralFlag exceeded | |
| | 1952 | Maximum values of object number exceeded | |
| | 1953 | Not used | |
| | 1954 | Not used | |
| Remedy | | <ul style="list-style-type: none"> • Check configuration data and transfer them again. | |

| Fatal Error Code | | F 1955 - F 1959 (Internal) | |
|-------------------------|------|---|--|
| Error message | | Range check error of configuration data Device Descriptor. | |
| Cause | 1955 | classID invalid | |
| | 1956 | Maximum values of GeneralFlag exceeded | |
| | 1957 | Not used | |
| | 1958 | Not used | |
| | 1959 | Not used | |
| Remedy | | <ul style="list-style-type: none"> • Check configuration data and transfer them again. | |

| Fatal Error Code | | F 1960 - F 1969 (Internal) | |
|-------------------------|------|---|--|
| Error message | | Range check error of configuration data Diagnosis. | |
| Cause | 1960 | classID invalid | |
| | 1961 | Maximum values of GeneralFlag exceeded | |
| | 1962 | Maximum values of fieldbus typ exceeded | |
| | 1963 | Maximum values of send cycle exceeded | |
| | 1964 | Not used | |
| | 1965 | Not used | |
| | 1966 | Not used | |
| | 1967 | Not used | |
| | 1968 | Not used | |
| | 1969 | Not used | |
| Remedy | | <ul style="list-style-type: none"> • Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1970 - F 1974 (Internal) | |
| Error message | Range check error of configuration data PLC Timer. | |
| Cause | 1970 | classID invalid |
| | 1971 | Maximum values of GeneralFlag exceeded |
| | 1972 | Maximum values of PLC-Timer exceeded |
| | 1973 | Invalid mode (save permanently) |
| | 1974 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 1975 - F 1984 (Internal) | |
| Error message | Range check error of configuration data PLC AWL list. | |
| Cause | 1975 | classID invalid |
| | 1976 | Maximum values of GeneralFlag exceeded |
| | 1977 | Maximum values of PLC length exceeded |
| | 1978 | Maximum values of OpCode exceeded |
| | 1979 | EOF ID is wrong |
| | 1980 | AWL Counter is not plausible |
| | 1981 | Wrong ID functional inputs |
| | 1982 | Not used |
| | 1983 | Not used |
| | 1984 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|---|
| Fatal Error Code | F 1985 - F 1997 (Internal) | |
| Error message | Range check error of configuration data DEM. | |
| Cause | 1985 | classID invalid |
| | 1986 | Maximum values of GeneralFlag exceeded |
| | 1987 | Maximum values of mapped axis exceeded |
| | 1988 | Maximum values of speed threshold exceeded |
| | 1989 | Maximum values of hysteresis exceeded |
| | 1990 | Maximum values of hysteresis + speed threshold exceeded |
| | 1991 | Maximum values of speed threshold < maximum value SOS |
| | 1992 | Maximum values of speed threshold < maximum value SLS |
| | 1993 | Maximum values of speed threshold < maximum value SCA |
| | 1994 | Maximum values of speed threshold < maximum value SDI |
| | 1995 | Not used |
| | 1996 | Not used |
| | 1997 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|------------------|
| Fatal Error Code | F 1998 - F 1999 (Internal) | |
| Error message | Range check error of configuration data PLC AWL List. | |
| Cause | 1998 | ConfigID invalid |
| | 1999 | DeviceID invalid |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

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

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

| | |
|-------------------------|--|
| Fatal Error Code | F 2009 / F 2010 |
| Error message | Timeout at DPR transfer fastchannel System A to B |
| Cause | Wrong transfer of system data |
| Remedy | <ul style="list-style-type: none"> • Replace system |

| | |
|-------------------------|--|
| Fatal Error Code | F 2019 / F 2020 (Internal) |
| Error message | Timeout at transfer of receive data |
| Cause | Wrong transfer of system data |
| Remedy | <ul style="list-style-type: none"> • Replace system |

| | |
|-------------------------|--|
| Fatal Error Code | F 2021 (Internal) |
| Error message | Timeout during write access to FRAM |
| Cause | Signal wires to FRAM are faulty |
| Remedy | <ul style="list-style-type: none"> • Check Hardware of device |

| | |
|-------------------------|--|
| Fatal Error Code | F 2023 / F 2024 (Internal) |
| Error message | Timeout during Start of a new system cycle |
| Cause | Wrong transfer of system data |
| Remedy | <ul style="list-style-type: none"> • Replace system |

| | |
|-------------------------|---|
| Fatal Error Code | F 2230 - F 2244 (Internal) |
| Error message | Range check error of configuration data MPM |
| Cause | 2230 classID invalid |
| | 2231 Maximum values of GeneralFlag exceeded |
| | 2232 Wrong mode |
| | 2233 Number of MPM axis invalid |
| | 2234 Axis number invalid |
| | 2235 Position factor/ measuring length master axis invalid |
| | 2236 Axis number slave axis invalid |
| | 2237 Position tolerance out of range |
| | 2238 Position factor slave axis invalid |
| | 2239 Gear ratio out of range |
| | 2240 Offset slave axis out of range |
| 2241 Not used | |
| 2242 Not used | |
| 2243 Not used | |
| 2244 Not used | |
| Remedy | <ul style="list-style-type: none"> • Check configuration data and transfer them again. |

| | | |
|-------------------------|---|---|
| Fatal Error Code | F 2245 - F 2259 (Internal) | |
| Error message | Range check error of configuration data fastchannel AWL list. | |
| Cause | 2245 | classID invalid |
| | 2246 | Maximum values of GeneralFlag exceeded |
| | 2247 | Maximum values of PLC fastchannel length exceeded |
| | 2248 | Maximum values of fastchannel opcode exceeded |
| | 2249 | EOF ID is wrong |
| | 2250 | AWL Counter is not plausible |
| | 2251 | Linker error to opcode |
| | 2252 | Used opcode not supported by fastchannel |
| | 2253 | AWL counter not correct |
| | 3354 | Not used |
| | 3355 | Not used |
| | 3356 | Not used |
| | 3357 | Not used |
| 3358 | Not used | |
| 3359 | Not used | |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 2260 - F 2269 (Internal) | |
| Error message | Range check error of configuration data "IF" Block. | |
| Cause | 2260 | classID invalid |
| | 2261 | Maximum values of GeneralFlag exceeded |
| | 2262 | Not used |
| | 2263 | Not used |
| | 2264 | Not used |
| | 2265 | Not used |
| | 2266 | Not used |
| | 2267 | Not used |
| | 2268 | Not used |
| | 3369 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--|
| Fatal Error Code | F 2270 - F 2279 (Internal) | |
| Error message | Range check error of configuration data "SWM" Block. | |
| Cause | 2270 | ClassID invalid |
| | 2271 | Maximum values of GeneralFlag exceeded |
| | 2272 | Invalid mode |
| | 2273 | Invalid axis or factor pos for used axis not equal |
| | 2274 | Invalid position start value |
| | 2275 | Invalid value for object |
| | 2276 | Not used |
| | 2277 | Not used |
| | 2278 | Not used |
| | 3379 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|------------------------------------|
| Fatal Error Code | F 2280 - F 2284 (Internal) | |
| Error message | Range check error of configuration data SARC "CST" Block. | |
| Cause | 2280 | ClassID invalid |
| | 2281 | Number of constant blocks exceeded |
| | 2282 | Not used |
| | 2283 | Not used |
| | 2284 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|--------------------------------|
| Fatal Error Code | F 2285 - F 2289 (Internal) | |
| Error message | Range check error of configuration data virtual axis. | |
| Cause | 2280 | ClassID invalid |
| | 2281 | Number of virtual axes invalid |
| | 2282 | Position factor out of range |
| | 2283 | Speed factor out of range |
| | 2284 | Unit invalid |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|---|----------------------------------|
| Fatal Error Code | F 2290 - F 2299 (Internal) | |
| Error message | Range check error of configuration data SARC. | |
| Cause | 2290 | Number of SARC commands exceeded |
| | 2291 | SARC Code invalid |
| | 2292 | SARC type invalid |
| | 2293 | SARC Index invalid |
| | 2294 | Number of matrices invalid |
| | 2295 | Not used |
| | 2296 | Not used |
| | 2297 | Not used |
| | 2298 | Not used |
| | 3399 | Not used |
| Remedy | <ul style="list-style-type: none"> Check configuration data and transfer them again. | |

| | | |
|-------------------------|--|--|
| Fatal Error Code | F 2403 (Internal) | |
| Error message | Pointer error at transfer of configuration data | |
| Cause | Size of configuration data doesn't match | |
| Remedy | <ul style="list-style-type: none"> Check firmware | |

| | | |
|-------------------------|--|--|
| Fatal Error Code | F 3001 / F 3002 (Internal) | |
| Error message | Ticker sync error | |
| Cause | - | |
| Remedy | <ul style="list-style-type: none"> Check wiring on device Check EMC requirements Switch device off/on Replace device | |

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

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

| | |
|-------------------------|--|
| Fatal Error Code | F 3217 / F 3218 |
| Error message | Internal supply voltage 3.3V incorrect. |
| Cause | <ul style="list-style-type: none"> • Supply voltage of assembly group incorrect! • Component error in assembly group |
| Remedy | <ul style="list-style-type: none"> • Check device supply voltage! • Switch off/on device. |

| | |
|-------------------------|--|
| Fatal Error Code | F 3241 / F 3242 |
| Error message | Internal supply voltage 1.5V incorrect. |
| Cause | <ul style="list-style-type: none"> • Supply voltage of assembly group incorrect! • Component error in assembly group |
| Remedy | <ul style="list-style-type: none"> • Check device supply voltage! • Switch off/on device. |

| | |
|-------------------------|--|
| Fatal Error Code | F 3243 / F 3244 |
| Error message | Internal supply voltage 1.2V incorrect. |
| Cause | <ul style="list-style-type: none"> • Supply voltage of assembly group incorrect! • Component error in assembly group |
| Remedy | <ul style="list-style-type: none"> • Check device supply voltage! • Switch off/on device. |

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

| | |
|-------------------------|--|
| Fatal Error Code | F 3249 / F 3250 |
| Error message | Internal supply voltage 5.0V incorrect. |
| Cause | <ul style="list-style-type: none"> • Supply voltage of assembly group incorrect! • Component error in assembly group |
| Remedy | <ul style="list-style-type: none"> • Check device supply voltage! • Switch off/on device. |

| | |
|-------------------------|---|
| Fatal Error Code | F 3251 / F 3252 |
| Error message | Supply voltage 24V of first IO extension board faulty. |
| Cause | <ul style="list-style-type: none"> • Supply voltage for module not correct! • Component fault in module |
| Remedy | <ul style="list-style-type: none"> • Check device supply voltage! • Switch device off/on. |

| | |
|-------------------------|---|
| Fatal Error Code | F 3253 / F 3254 |
| Error message | Supply voltage 24V of second IO extension board faulty. |
| Cause | <ul style="list-style-type: none"> • Supply voltage for module not correct! • Component fault in module |
| Remedy | <ul style="list-style-type: none"> • Check device supply voltage! • Switch device off/on. |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| | |
|-------------------------|--|
| Fatal Error Code | F 3621 |
| Error message | Incorrect switching of NO/NC contact relay AK1 |
| Cause | Wrong wiring on device |
| Remedy | <ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device |

| | |
|-------------------------|--|
| Fatal Error Code | F 3622 |
| Error message | Incorrect switching of NO/NC contact relay AK2 |
| Cause | Wrong wiring on device |
| Remedy | <ul style="list-style-type: none"> • Check output wiring of device • Check wiring for short circuit • Power Cycle • Replace Device |

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

| | |
|-------------------------|--|
| Fatal Error Code | F 3624 |
| Error message | Error testing WD circuit during startup |
| Cause | <ul style="list-style-type: none"> • WD isn't triggered correctly • Short circuit |
| Remedy | <ul style="list-style-type: none"> • Check output wiring of device • Check power supply of device • Power Cycle • Replace Device |

| | |
|-------------------------|---|
| Fatal Error Code | F 3625 / F 3626 |
| Error message | Incorrect switching of output main switch |
| Cause | <ul style="list-style-type: none"> • Wrong wiring on device • Short circuit • Time WD incorrect |
| Remedy | <ul style="list-style-type: none"> • Check output wiring of device • Check power supply of device • Check wiring for short circuit • Switch device off/on • Replace Device |

| | |
|-------------------------|---|
| Fatal Error Code | F 3653 / F 3654 |
| Error message | Error at dynamic testing of Main Switch 1 of HighSide outputs 1 and 2 |
| Cause | <ul style="list-style-type: none"> • Wrong wiring on device (short circuit) • Faulty hardware |
| Remedy | <ul style="list-style-type: none"> • Check wiring for short circuit • Check Hardware |

| | |
|-------------------------|---|
| Fatal Error Code | F 3655 / F 3656 |
| Error message | Error at dynamic testing of Main Switch 2 of HighSide outputs 3 and 4 |
| Cause | <ul style="list-style-type: none"> • Wrong wiring on device (short circuit) • Faulty hardware |
| Remedy | <ul style="list-style-type: none"> • Check wiring for short circuit • Check Hardware |

| | |
|-------------------------|---|
| Fatal Error Code | F 3657 / F 3658 |
| Error message | Error at dynamic testing of HighSide 1 |
| Cause | <ul style="list-style-type: none"> • Wrong wiring on device (short circuit) • Faulty hardware |
| Remedy | <ul style="list-style-type: none"> • Check wiring for short circuit • Check Hardware |

| | |
|-------------------------|---|
| Fatal Error Code | F 3659 / F 3660 |
| Error message | Error at dynamic testing of HighSide 2 |
| Cause | <ul style="list-style-type: none"> • Wrong wiring on device (short circuit) • Faulty hardware |
| Remedy | <ul style="list-style-type: none"> • Check wiring for short circuit • Check Hardware |

| | |
|-------------------------|---|
| Fatal Error Code | F 3661 / F 3662 |
| Error message | Error at dynamic testing of HighSide 3 |
| Cause | <ul style="list-style-type: none"> • Wrong wiring on device (short circuit) • Faulty hardware |
| Remedy | <ul style="list-style-type: none"> • Check wiring for short circuit • Check Hardware |

| | |
|-------------------------|---|
| Fatal Error Code | F 3663 / F 3664 |
| Error message | Error at dynamic testing of HighSide 4 |
| Cause | <ul style="list-style-type: none"> • Wrong wiring on device (short circuit) • Faulty hardware |
| Remedy | <ul style="list-style-type: none"> • Check wiring for short circuit • Check Hardware |

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

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

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

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

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

| | |
|-------------------------|---|
| Fatal Error Code | F 3703 / F 3704 (Internal) |
| Error message | CRC error process image initialization CPU A to CPU B |
| Cause | Different process images of System A to System B |
| Remedy | <ul style="list-style-type: none"> • Power Cycle |

| | |
|-------------------------|---|
| Fatal Error Code | F 3705 / F 3706 (Internal) |
| Error message | Error comparing process images fastchannel CPU A – CPU B |
| Cause | - |
| Remedy | <ul style="list-style-type: none"> • Check EMC requirements • Power Cycle • Replace device |

| | |
|-------------------------|---|
| Fatal Error Code | F 3707 / F 3708 (Internal) |
| Error message | CRC error process image fastchannel initialization System A to System B |
| Cause | Different process images of System A to System B |
| Remedy | <ul style="list-style-type: none"> • Power Cycle |

| | |
|-------------------------|--|
| Fatal Error Code | F 3841 / F 3842 |
| Error message | Dynamic test failed for HighSide1 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3843 / F 3844 |
| Error message | Dynamic test failed for HighSide2 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3845 / F 3846 |
| Error message | Dynamic test failed for HighSide3 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3847 / F 3848 |
| Error message | Dynamic test failed for HighSide4 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3849 / F 3850 |
| Error message | Dynamic test failed for HighSide5 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3851 / F 3852 |
| Error message | Dynamic test failed for HighSide6 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3853 / F 3854 |
| Error message | Dynamic test failed for HighSide 7 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3855 / F 3856 |
| Error message | Dynamic test failed for HighSide8 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3857 / F 3858 |
| Error message | Dynamic test failed for HighSide9 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3859 / F 3860 |
| Error message | Dynamic test failed for HighSide10 on the first io extension board |
| Cause | The dynamic test is failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 3891 / F 3892 |
| Error message | Main switch of first IO missing |
| Cause | The power supply to the first io extension is wrong. |
| Remedy | <ul style="list-style-type: none"> • Check the power supply |

| | |
|-------------------------|--|
| Fatal Error Code | F 3893 / F 3894 |
| Error message | Main switch of second IO missing |
| Cause | The power supply to the first io extension is wrong. |
| Remedy | <ul style="list-style-type: none"> • Check the power supply |

| | |
|-------------------------|--|
| Fatal Error Code | F 3971 / F 3972 |
| Error message | Main switch of second IO missing |
| Cause | The power supply to the first io extension is wrong. |
| Remedy | <ul style="list-style-type: none"> • Check the power supply |

| | |
|-------------------------|--|
| Fatal Error Code | F 3973 / F 3974 |
| Error message | Main switch of second IO missing |
| Cause | The power supply to the first io extension is wrong. |
| Remedy | <ul style="list-style-type: none"> • Check the power supply |

| | |
|-------------------------|--|
| Fatal Error Code | F 3975 / F 3976 |
| Error message | Main switch of second IO missing |
| Cause | The power supply to the first io extension is wrong. |
| Remedy | <ul style="list-style-type: none"> • Check the power supply |

| | |
|-------------------------|--|
| Fatal Error Code | F 3977 / F 3978 |
| Error message | Main switch of second IO missing |
| Cause | The power supply to the first io extension is wrong. |
| Remedy | <ul style="list-style-type: none"> • Check the power supply |

| | |
|-------------------------|--|
| Fatal Error Code | F 4501 / F 4502 |
| Error message | SSX Acceleration is out of range |
| Cause | SSX acceleration is generator then 2'15 |
| Remedy | <ul style="list-style-type: none"> • Check the safety monitoring function |

| | |
|-------------------------|--|
| Fatal Error Code | F 5201 / F 5202 |
| Error message | Dynamic test for HighSide1 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 5203 / F 5204 |
| Error message | Dynamic test for HighSide2 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 5205 / F 5206 |
| Error message | Dynamic test for HighSide3 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 5207 / F 5208 |
| Error message | Dynamic test for HighSide4 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 5209 / F 5210 |
| Error message | Dynamic test for HighSide5 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 5211 / F 5212 |
| Error message | Dynamic test for HighSide6 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 5213 / F 5214 |
| Error message | Dynamic test for HighSide7 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 5215 / F 5216 |
| Error message | Dynamic test for HighSide8 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 5217 / F 5218 |
| Error message | Dynamic test for HighSide9 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

| | |
|-------------------------|--|
| Fatal Error Code | F 5219 / F 5220 |
| Error message | Dynamic test for HighSide10 on the second io extension board |
| Cause | Dynamic test failed |
| Remedy | <ul style="list-style-type: none"> • Check the power supply • Check the HW |

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

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

| | |
|-------------------------|---|
| Fatal Error Code | F 6809 / F 6810 (Internal) |
| Error message | CRC error during testing of input elements |
| Cause | Unknown switch type |
| Remedy | <ul style="list-style-type: none"> • Check PLC application (AWL) |

| | |
|-------------------------|---|
| Fatal Error Code | F 6811 / F 6812 (Internal) |
| Error message | ID of input elements is invalid |
| Cause | Unknown switch type |
| Remedy | <ul style="list-style-type: none"> • Check PLC application (AWL) |

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

| | |
|-------------------------|--|
| Fatal Error Code | F 7001 / F 7002 (Internal) |
| Error message | Internal FSoE slave stack failure |
| Cause | Error in configuration data |
| Remedy | <ul style="list-style-type: none"> • Check configuration data |

| | |
|-------------------------|--|
| Fatal Error Code | F 7003 / F 7004 (Internal) |
| Error message | Wrong FSoE instance |
| Cause | Error in configuration data |
| Remedy | <ul style="list-style-type: none"> • Check configuration data |

| | |
|-------------------------|--|
| Fatal Error Code | F 7429 / F7430 (Intern) |
| Error message | Failure in PROFIsafe stack |
| Cause | Program counter of PROFIsafe stack wrong |
| Remedy | <ul style="list-style-type: none"> • check configuration • Power Cycle |

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

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

| | |
|-------------------------|--|
| Fatal Error Code | F 8213 / F 8220 (Internal) |
| Error message | Runtime overflow interrupt |
| Cause | - |
| Remedy | <ul style="list-style-type: none"> • Re-transmit configuration to device • Power Cycle |

| | |
|-------------------------|-------------------|
| Fatal Error Code | F 8214 |
| Error message | EC_B_PTI_OVERFLOW |
| Cause | |
| Remedy | |

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

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

| | |
|-------------------------|--|
| Fatal Error Code | F 8225 (Internal) |
| Error message | Expectation main program loop to PPI doesn't match |
| Cause | Run time exceeded |
| Remedy | <ul style="list-style-type: none"> • Master -> raise configurable cycle time |

| | |
|-------------------------|--|
| Fatal Error Code | F 8227 (Internal) |
| Error message | Run time supervision PPI System A is wrong |
| Cause | Interrupt running time differs |
| Remedy | <ul style="list-style-type: none"> • Master -> raise configurable cycle time |

| | |
|-------------------------|--|
| Fatal Error Code | F 8229 / F 8230 (Internal) |
| Error message | Run time supervision lplzi PPI is wrong |
| Cause | Interrupt running time differs |
| Remedy | <ul style="list-style-type: none"> • Check firmware |

| | |
|-------------------------|--|
| Fatal Error Code | F 8231 / F 8232 (Internal) |
| Error message | Error at waiting for last interrupt in main program |
| Cause | Run time exceeded |
| Remedy | <ul style="list-style-type: none"> • Check firmware |

| | |
|-------------------------|---|
| Fatal Error Code | F 8233 / F 8234 (Internal) |
| Error message | Overshooting/Undershooting of cyletime 16 ms +/- 5% |
| Cause | cycle time not between lower and upper limit |
| Remedy | Master -> raise configurable cycle time |

| | |
|-------------------------|---|
| Fatal Error Code | F 8235 / F 8236 (Internal) |
| Error message | Version of System A differs from version of System B |
| Cause | Firmwareupdate was unsuccessful |
| Remedy | <ul style="list-style-type: none"> Update Firmware again |

| | |
|-------------------------|--|
| Fatal Error Code | F 8237 / F 8238 (Internal) |
| Error message | LPLZ FSoE master is not same as the defined counter. |
| Cause | FSoE_Master_lplz is not calling all the functions it is supposed to. |
| Remedy | <ul style="list-style-type: none"> Check the FSoE stack |

| | |
|-------------------------|--|
| Fatal Error Code | F 8239 / F 8240 (Internal) |
| Error message | LPLZ FSoE slave is not same as the defined counter. |
| Cause | fsoe_lplz[0] is not calling all the functions it is supposed to. |
| Remedy | <ul style="list-style-type: none"> Check the FSoE stack |

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

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

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

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

| | |
|-------------------------|--|
| Fatal Error Code | F 9013 (Internal) |
| Error message | Testaddress Galpat Test was saved incorrectly |
| Cause | Memory address for RAM Test was saved incorrectly |
| Remedy | <ul style="list-style-type: none"> Check FRAM |

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

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

| | |
|-------------------------|---|
| Fatal Error Code | F 9019 / F 9020 (Internal) |
| Error message | Switch default |
| Cause | - |
| Remedy | <ul style="list-style-type: none"> • Power Cycle • Replace device |

| | |
|-------------------------|--|
| Fatal Error Code | F 9021 / F 9022 (Internal) |
| Error message | Error at evaluation of „soft variables“ of selftest class |
| Cause | Statically assigned variables are additionally saved inverted |
| Remedy | <ul style="list-style-type: none"> • Check firmware • Replace device |

| | |
|-------------------------|---|
| Fatal Error Code | F 9023 / F 9024 (Internal) |
| Error message | Error at ECC RAM test |
| Cause | Faulty RAM |
| Remedy | <ul style="list-style-type: none"> • Replace CPU |

| | |
|-------------------------|---|
| Fatal Error Code | F 9025 / F 9026 (Internal) |
| Error message | Error at ECC RAM test |
| Cause | Faulty RAM |
| Remedy | <ul style="list-style-type: none"> • Replace CPU |

| | |
|-------------------------|---|
| Fatal Error Code | F 9027 / F 9028 (Internal) |
| Error message | Error at ECC RAM test |
| Cause | Faulty RAM |
| Remedy | <ul style="list-style-type: none"> • Replace CPU |

| | |
|-------------------------|--|
| Fatal Error Code | F 9031 / F 9032 |
| Error message | Faulty pointer calculation. |
| Cause | Faulty firmware execution. |
| Remedy | <ul style="list-style-type: none"> • Replace device |

| | |
|-------------------------|--|
| Fatal Error Code | F 9033 / F 9034 |
| Error message | Faulty pointer calculation. |
| Cause | Faulty firmware execution. |
| Remedy | <ul style="list-style-type: none"> • Replace device |

| | |
|-------------------------|---|
| Fatal Error Code | F 9309/ F 9310 (Internal) |
| Error message | Cycletime of first SDC/SSB is different to second SDC/SSB |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> Update firmware |

| | |
|-------------------------|--|
| Fatal Error Code | F 9311/ F 9312 (Internal) |
| Error message | Invalid SDC/SSB Assignment in function call KrsHNFGGetRobotPosSampleTime() |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> Update firmware |

| | |
|-------------------------|---|
| Fatal Error Code | F 9401 (Internal) |
| Fault message | Invalid FSoE status for startup connection SCU to SDC/SSB |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> Update firmware |

| | |
|-------------------------|---|
| Fatal Error Code | F 9403 (Internal) |
| Error message | Invalid CoE status for startup connection SCU to SDC/SSB |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> Update firmware |

| | |
|-------------------------|---|
| Fatal Error Code | F 9405 (Internal) |
| Error message | Invalid command for startup connection SCU to SDC/SSB |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> Update firmware |

| | |
|-------------------------|---|
| Fatal Error Code | F 9407 (Internal) |
| Error message | Invalid device for startup connection SCU to SDC/SSB |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> Update firmware |

| | |
|-------------------------|---|
| Fatal Error Code | F 9409 (Internal) |
| Error message | Invalid connection for startup connection SCU to SDC/SSB |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> Update firmware |

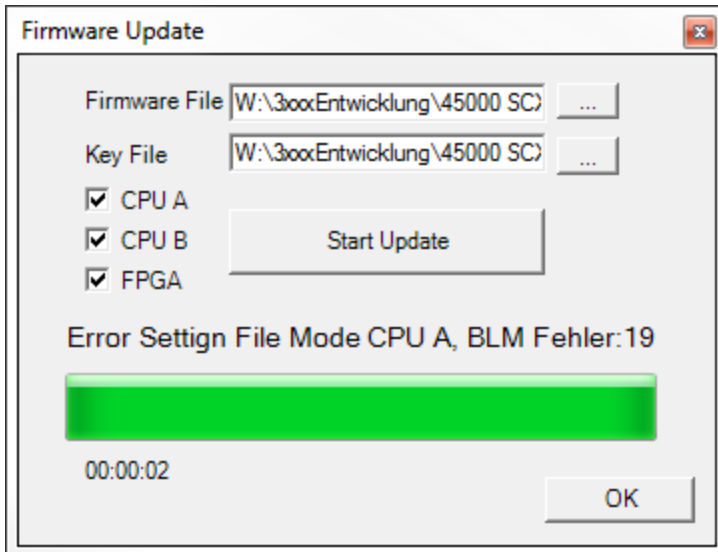
| | |
|-------------------------|---|
| Fatal Error Code | F 9411 (Internal) |
| Error message | Invalid memory range for startup connection SCU to SDC/SSB |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> Update firmware |

| | |
|-------------------------|---|
| Fatal Error Code | F 9413 (Internal) |
| Error message | Invalid command for startup connection SCU to SDC/SSB |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none"> Update firmware |

| | |
|-------------------------|---|
| Fatal Error Code | F 9415 (Internal) |
| Error message | Invalid CoE status for startup connection SCU to SDC/SSB |
| Cause | Faulty firmware |
| Remedy | <ul style="list-style-type: none">• Update firmware |

4 Firmware update error messages

Error messages are only displayed in the firmware update window.



| BLM Error | Description |
|-----------|--|
| 15 | Keyfile invalid (data in keyfile not readable) |
| 16 | Keyfile invalid (checksum in keyfile not correct) |
| 17 | Keyfile does not match the device ID (wrong device type) |
| 18 | Keyfile does not match the device serial number |
| 19 | Keyfile does not match the FW version Device |

| BLM Error | 15 |
|-----------|---|
| Message | Keyfile invalid (data in keyfile not readable) |
| Cause | Faulty keyfile |
| Remedy | <ul style="list-style-type: none"> Request new keyfile |

| BLM Error | 16 |
|-----------|---|
| Message | Keyfile invalid (checksum in keyfile not correct) |
| Cause | Faulty keyfile |
| Remedy | <ul style="list-style-type: none"> Request new keyfile |

| BLM Error | 17 |
|-----------|---|
| Message | Keyfile does not match the device ID (wrong device type) |
| Cause | Faulty keyfile |
| Remedy | <ul style="list-style-type: none"> Request new keyfile Select correct key file for device |

| | |
|------------------|---|
| BLM Error | 18 |
| Message | Keyfile does not match the serial number Device |
| Cause | Faulty keyfile |
| Remedy | <ul style="list-style-type: none"> • Request new keyfile • Select correct key file for device |

| | |
|------------------|---|
| BLM Error | 19 |
| Message | Keyfile does not match the FW version device |
| Cause | Faulty keyfile |
| Remedy | <ul style="list-style-type: none"> • Request new keyfile • Select correct key file for device |

5 Logbook

| | |
|-------------|-----------------------------|
| Code | 10001 |
| Message | LOG_DOWNLOAD |
| Cause | Download configuration data |

| | |
|-------------|---|
| Code | 10002 |
| Message | LOG_Validation |
| Cause | Validation of configuration data executed |

| | |
|-------------|--------------|
| Code | 10003 |
| Message | LOG_MUTING |
| Cause | Muting error |

| | |
|-------------|---------------|
| Code | 10004 |
| Message | LOG_STATE_POR |
| Cause | POR assembly |

| | |
|-------------|-----------------|
| Code | 10005 |
| Message | LOG_STATE_START |
| Cause | Assembly in RUN |

| | |
|-------------|---------------------------|
| Code | 10006 |
| Message | LOG_STATE_STOP |
| Cause | Assembly switched to STOP |