

AXL F DO8/2 2A 1H

**Axioline F digital output module, 8 outputs,
24 V DC, 2 A, 2-wire connection technology**

Data sheet
8238_en_04

© PHOENIX CONTACT 2016-07-05



1 Description

The module is designed for use within an Axioline F station.

It is used to output digital signals.

The outputs are short-circuit and overload-protected .

Features

- 8 digital outputs
- 24 V DC, 2 A
- Connection of actuators in 2-wire technology
- Minimum update time of < 150 µs
- Device type label stored
- Diagnostic and status indicators



This data sheet is only valid in association with the UM EN AXL F SYS INST user manual.



Make sure you always use the latest documentation.
It can be downloaded from the product at phoenixcontact.net/products.

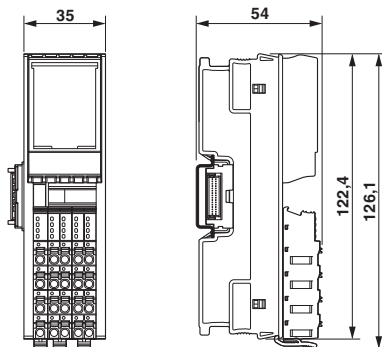
| | | |
|----------|------------------------------------------------------------------------------------|----|
| 2 | Table of contents | |
| 1 | Description | 1 |
| 2 | Table of contents | 2 |
| 3 | Ordering data | 3 |
| 4 | Technical data | 3 |
| 5 | Maximum outputs power consumption when inductive loads are switched off | 7 |
| 6 | Internal circuit diagram | 7 |
| 7 | Terminal point assignment..... | 8 |
| 8 | Connection example..... | 8 |
| 9 | Local diagnostic and status indicators | 9 |
| 10 | Process data..... | 10 |
| 11 | Parameter, diagnostics and information (PDI) | 10 |
| 12 | Standard objects | 11 |
| | 12.1 Objects for identification (device rating plate)..... | 11 |
| | 12.2 Object for multilingual capacity..... | 12 |
| | 12.3 Diagnostics objects | 12 |
| | 12.4 Objects for process data management..... | 13 |
| 13 | Application objects | 14 |
| | 13.1 Substitute value behavior (FF8Dhex: PD Output Substitute Configuration) | 14 |
| | 13.2 Message "Actuator supply not present" (FF8Fhex: DiagOut)..... | 14 |
| 14 | Device descriptions | 14 |

3 Ordering data

| Description | Type | Order No. | Pcs./Pkt. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|-----------|
| Axioline F, Digital output, Digital outputs: 8, 24 V DC, 2 A, Connection method: 2-wire, Transmission speed in the local bus 100 MBit/s, Degree of protection IP20, including bus base module and Axioline F connectors | AXL F DO8/2 2A 1H | 2688381 | 1 |
| Accessories | Type | Order No. | Pcs./Pkt. |
| Axioline F bus base module for housing type H (Replacement item) | AXL F BS H | 2700992 | 5 |
| Axioline F connector set (for e.g., AXL F DO8/2 2A 1H) (Replacement item) | AXL CNS 2L-OBOB/D/UO/E1 | 2700987 | 1 |
| Zack marker strip for Axioline F (device labeling), in 2 x 20.3 mm pitch, unprinted, 25-section, for individual labeling with B-STIFT 0.8, X-PEN, or CMS-P1-PLOTTER (Marking) | ZB 20,3 AXL UNPRINTED | 0829579 | 25 |
| Zack marker strip, flat, in 10 mm pitch, unprinted, 10-section, for individual labeling with M-PEN 0,8, X-PEN, or CMS-P1-PLOTTER (Marking) | ZBF 10/5,8 AXL UNPRINTED | 0829580 | 50 |
| Insert label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X, THERMOMARK S1.1, Mounting type: snapped into marker carrier, Lettering field: 35 x 28 mm (Marking) | EMT (35X28)R | 0801602 | 1 |
| Documentation | Type | Order No. | Pcs./Pkt. |
| User manual, English, Axioline F: System and installation | UM EN AXL F SYS INST | - | - |
| User manual, English, Axioline F: Diagnostic registers, and error messages | UM EN AXL F SYS DIAG | - | - |

4 Technical data

Dimensions (nominal sizes in mm)



| | |
|--------------------|-------------------------------------------------------------------------------|
| Width | 35 mm |
| Height | 126.1 mm |
| Depth | 54 mm |
| Note on dimensions | The depth is valid when a TH 35-7.5 DIN rail is used (according to EN 60715). |

General data

| | |
|-----------------------------------------|---------------------------------------------|
| Color | traffic grey A RAL 7042 |
| Weight | 136 g (with connectors and bus base module) |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

General data

| | |
|------------------------------------------|---------------------------------------------------|
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Air pressure (operation) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Degree of protection | IP20 |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |
| Mounting position | Any (no temperature derating) |

Connection data

| | |
|------------------------------------------|-------------------------------------------------------------------------------------------|
| Designation | Axioline F connector |
| Connection method | Push-in connection |
| Conductor cross section solid / stranded | 0.5 mm ² ... 1.5 mm ² / 0.5 mm ² ... 1.5 mm ² |
| Conductor cross section [AWG] | 20 ... 16 |
| Stripping length | 8 mm |



Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual.

Interface Axioline F local bus

| | |
|--------------------|-----------------|
| Connection method | Bus base module |
| Transmission speed | 100 MBit/s |

Communications power

| | |
|------------------------------------|------------------------------|
| Communications power U_{BUS} | 5 V DC (via bus base module) |
| Current consumption from U_{BUS} | max. 150 mA |
| Power consumption at U_{BUS} | max. 750 mW |

I/O supply

| | |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply of digital output modules U_O | 24 V DC |
| Maximum permissible voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current consumption from U_O | max. 16 A (Provide external protection; if the total current of 8 A is exceeded, connect the supply at the power connector parallel via both terminal points.) |
| Power consumption at U_O | typ. 260 mW (without actuators), max. 480 W (Of which 625 mW with internal losses) |
| Surge protection of the supply voltage | Electronic (35 V, 0.5 s) |
| Polarity reversal protection of the supply voltage | Parallel diode; with external 5 A fuse (for startup only) |
| Protection | max. 16 A (polarity reversal protection up to 5 A) |



When using the module for the first time, protect it with a 5 A fuse. When all modules in the system are correctly connected, the 5 A fuse can be replaced by a 16 A fuse. You can now load the module up to 16 A. Observe the derating. Loads over 16 A are not permitted.



NOTE: Damage to the electronics

Provide the module with an external fuse to protect it against polarity reversal. The power supply unit must be able to supply four times the nominal current of the external fuse, to ensure that it trips in the event of an error.

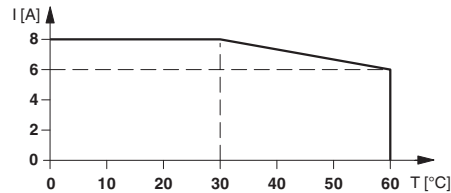
Digital outputs

| | |
|------------------------------------|----------------------|
| Number of outputs | 8 |
| Connection method | Push-in connection |
| Connection method | 2-wire |
| Nominal output voltage | 24 V DC |
| Maximum output current per channel | 2 A |
| Maximum output current per device | 16 A (external fuse) |

Digital outputs

| | |
|-------------------------|------------------------------------------------------------------------------------------------------|
| Nominal load, ohmic | max. 48 W (12 Ω, at nominal load) |
| Nominal load, inductive | max. 48 VA (1.2 H, 12 Ω, at nominal load) |
| Nominal load, lamp | max. 48 W (at nominal voltage) |
| Signal delay | max. 150 μs (when switched on) max. 150 μs (When switched off; with at least 100 mA load current) |
| Switching frequency | max. 3000 per second (with ohmic load) |
| Switching frequency | max. 1 per second (with inductive load) |
| Switching frequency | max. 4 per second (with nominal lamp load) |
| Load min. | 10 kΩ |
| Energy consumption | see diagram |
| Derating | For channel groups 1 ... 4 and 5 ... 8: 8 A to 30°C, then dropping linearly to 6 A at 60°C |

Derating diagram for channel groups 1 ... 4 and 5 ... 8



| | |
|--------------------------------------------|----------------------------------------|
| Output voltage when switched off | max. 1 V |
| Output current when switched off | max. 300 μA |
| Behavior with overload | Shutdown with automatic restart |
| Behavior with inductive overload | Output can be destroyed |
| Reverse voltage resistance to short pulses | Limited protection up to 0.5 A for 1 s |



NOTE: Damage to the electronics

If there is a faulty external voltage (reverse voltage) at one of the outputs, the output may be destroyed. This may cause unintentional setting of further outputs.

| | |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Overcurrent shut-down | as of 2.8 A |
| Output current with ground connection interrupt when switched off | < 1 mA |
| Short-circuit protection, overload protection of the outputs | Electronic |
| Derating | For channel groups 1 ... 4 and 5 ... 8: 8 A to 30°C, then dropping linearly to 6 A at 60°C |

Configuration and parameter data in a PROFIBUS system

| | |
|-----------------------------|--------|
| Required parameter data | 1 Byte |
| Need for configuration data | 6 Byte |

Error messages to the higher level control or computer system

| | |
|-------------------------------------------------|-----|
| Short-circuit / overload of the digital outputs | Yes |
|-------------------------------------------------|-----|

Electrical isolation/isolation of the voltage areas

| Test section | Test voltage |
|-----------------------------------------------------|-------------------------|
| 5 V communications power (logic), 24 V supply (I/O) | 500 V AC, 50 Hz, 1 min. |
| 5 V supply (logic)/functional earth ground | 500 V AC, 50 Hz, 1 min. |
| 24 V supply (I/O) / functional earth ground | 500 V AC, 50 Hz, 1 min. |

Mechanical tests

| | |
|--------------------------------------------------------------|-----|
| Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 | 5g |
| Shock in acc. with EN 60068-2-27/IEC 60068-2-27 | 30g |
| Continuous shock according to EN 60068-2-27/IEC 60068-2-27 | 10g |

Conformance with EMC Directive 2014/30/EU

Noise immunity test in accordance with EN 61000-6-2

Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2

Criterion B, 6 kV contact discharge, 8 kV air discharge

Electromagnetic fields EN 61000-4-3/IEC 61000-4-3

Criterion A, Field intensity: 10 V/m

Fast transients (burst) EN 61000-4-4/IEC 61000-4-4

Criterion B, 2 kV

Transient overvoltage (surge) EN 61000-4-5/IEC 61000-4-5

Criterion B, DC supply lines: ± 0.5 kV/ ± 0.5 kV (symmetrical/asymmetrical)

Conducted interference EN 61000-4-6/IEC 61000-4-6

Criterion A; Test voltage 10 V

Noise emission test according to EN 61000-6-3

Radio interference properties EN 55022

Class B

Approvals

For the latest approvals, please visit phoenixcontact.net/products.

5 Maximum outputs power consumption when inductive loads are switched off

100 % simultaneity

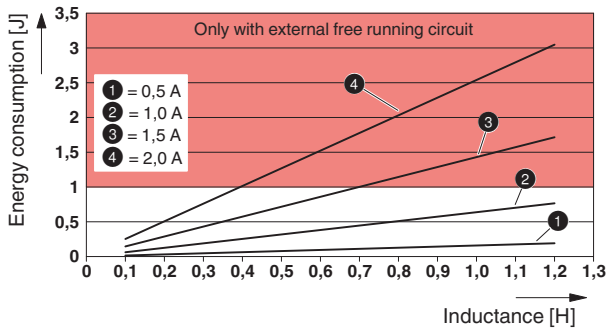


Figure 1 Maximum energy consumption of the outputs when switching off inductive loads with 100 % simultaneity

50 % simultaneity

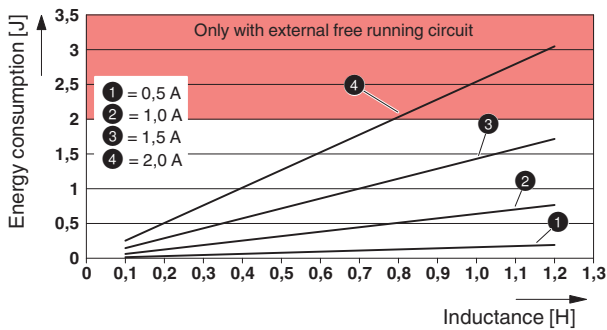


Figure 2 Maximum energy consumption of the outputs when switching off inductive loads with 50 % simultaneity

The specifications in the diagrams refer to a maximum switching frequency of 1 Hz.

The diagrams show the maximum amount of energy that may be fed back into the corresponding output groups (outputs 1 to 4, 5 to 8) for each switch-off procedure when switching off an inductive load without external freewheeling circuit.

The current data refers to the ohmic DC voltage component of the inductive load.

6 Internal circuit diagram

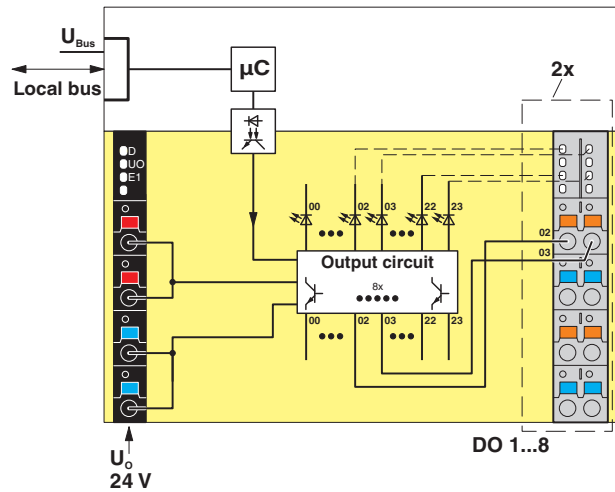


Figure 3 Internal wiring of the terminal points

Key:

| | |
|-----------|-------------------------------------------------------------|
| Local bus | Axioline F local bus (hereinafter referred to as local bus) |
| | Microcontroller |
| | Optocoupler |
| | LED |
| | Output configuration |
| | Electrically isolated areas |

7 Terminal point assignment

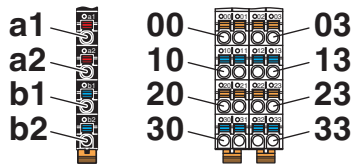


Figure 4 Terminal point assignment

| Terminal point | Color | Assignment | |
|-----------------------------|--------|---------------------------|-----------------------------------------------------------------|
| Supply voltage input | | | |
| a1, a2 | Red | 24 V DC (U ₀) | Supply for digital output modules (internally jumpered) |
| b1, b2 | Blue | GND | Reference potential of the supply voltage (internally jumpered) |
| Digital outputs | | | |
| 00 ... 03 | Orange | OUT1 ... OUT4 | Digital outputs 1 ... 4 |
| 10 ... 13 | Blue | GND | Reference potential for all channels |
| 20 ... 23 | Orange | OUT5 ... OUT8 | Digital outputs 5 ... 8 |
| 30 ... 33 | Blue | GND | Reference potential for all channels |

8 Connection example

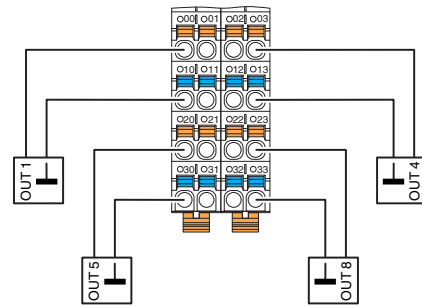


Figure 5 Connection with 2-wire technology

9 Local diagnostic and status indicators

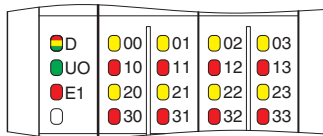


Figure 6 Local diagnostic and status indicators

| Designation | Color | Meaning | State | Description |
|-------------------------|--------------------------|----------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D | Red/ yellow/ green | Diagnostics of local bus communication | | |
| | | Run | Green ON | The device is ready for operation, communication within the station is OK. All data is valid. An error has not occurred. |
| | | Active | Green flashing | The device is ready for operation, communication within the station is OK. The data is not valid. Valid data from the controller/higher-level network not available. There is no fault in the module. |
| | | Device application not active | Flashing green/yellow | The device is ready for operation, communication within the station is OK. Output data cannot be outputted and/or input data cannot be read. There is a fault on the periphery side of the module.. |
| | | Ready | Yellow ON | The device is ready for operation but did not detect a valid cycle after power-up. |
| | | Connected | Yellow flashing | The device is not (yet) part of the active configuration. |
| | | Reset | Red ON | The device is ready for operation but has lost the connection to the bus head. |
| | | Not connected | Flashing red | The device is ready for operation but there is no connection to the previously existing device. |
| | | Power down | OFF | Device is in (power) reset. |
| U _O | Green | U _{Output} | ON | Supply for digital output modules present. |
| | | | OFF | Supply for digital output modules is not present. |
| E1 | Red | Peripheral fault | ON | Breakdown or overload/short-circuit of an output. |
| | | | OFF | No I/O error. |
| 00 ... 03, 20 ... 23 | Yellow | Output status | ON | Output is set. |
| | | | OFF | Output is not set. |
| 10 ... 13, 30 ... 33 | Red | Diagnostics of the output | ON | Short-circuit/overload of the output. |
| | | | OFF | No short-circuit/overload of the output. |

10 Process data

OUT process data

I/O data is mapped in the Motorola format.

| | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|
| Byte | 0 | | | | | | | |
| Bit | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| Channel | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| Terminal point | 23 | 22 | 21 | 20 | 03 | 02 | 01 | 00 |

11 Parameter, diagnostics and information (PDI)

Parameter and diagnostic data as well as other information is transmitted via the PDI channel of the Axioline F station.

The standard and application objects stored in the module are described in the following section.

The following applies to all tables below:

Please refer to the UM EN AXL F SYS INST for an explanation of the object codes and data types.

| Abbreviation | Meaning |
|--------------|------------------------|
| A | Number of elements |
| L | Length of the elements |
| R | Read |
| W | Write |



Every visible string is terminated with a zero terminator (00_{hex}). The length of a visible string element is therefore one byte larger than the amount of user data.



For detailed information on PDI and the objects, please refer to the UM EN AXL F SYS INST user manual.

12 Standard objects

12.1 Objects for identification (device rating plate)

| Index (hex) | Object name | Object type | Data type | A | L | Rights | Meaning | Contents |
|--------------------------|-----------------|-------------|----------------|---|--------|--------|----------------------------|--------------------------------------------------|
| Manufacturer | | | | | | | | |
| 0001 | VendorName | Var | Visible String | 1 | 16 | R | Vendor name | Phoenix Contact |
| 0002 | VendorID | Var | Visible String | 1 | 7 | R | Vendor ID | 00A045 |
| 0003 | VendorText | Var | Visible String | 1 | 49 | R | Vendor text | Components and systems for industrial automation |
| 0012 | VendorURL | Var | Visible String | 1 | 23 | R | Vendor URL | www.phoenixcontact.com |
| Module - general | | | | | | | | |
| 0004 | DeviceFamily | Var | Visible String | 1 | 16 | R | Device family | I/O digital OUT |
| 0006 | ProductFamily | Var | Visible String | 1 | 6 | R | Product family | AXL F |
| 000E | CommProfile | Var | Visible String | 1 | 4 | R | Communication profile | 633 |
| 000F | DeviceProfile | Var | Visible String | 1 | 5 | R | Device profile | 0010 |
| 0011 | ProfileVersion | Record | Visible String | 2 | 11; 20 | R | Profile version | 2011-12-07; Basis - Profil V2.0 |
| 003A | VersionCount | Array | Unsigned 16 | 4 | 4 * 2 | R | Version counter | e.g., 0007 0001 0000 0000 _{hex} |
| Module - special | | | | | | | | |
| 0005 | Capabilities | Array | Visible String | 1 | 8 | R | Features | Nothing |
| 0007 | ProductName | Var | Visible String | 1 | 18 | R | Product name | AXL F DO8/2 2A 1H |
| 0008 | SerialNo | Var | Visible String | 1 | 11 | R | Serial number | xxxxxxxx (e. g., 1234512345) |
| 0009 | ProductText | Var | Visible String | 1 | 18 | R | Product text | 8 digital outputs |
| 000A | OrderNumber | Var | Visible String | 1 | 8 | R | Order No. | 2688381 |
| 000B | HardwareVersion | Record | Visible String | 2 | 11; 3 | R | Hardware version | e. g., 2011-02-04; 00 |
| 000C | FirmwareVersion | Record | Visible String | 2 | 11; 3 | R | Firmware version | 0000-00-00; -- |
| 000D | PChVersion | Record | Visible String | 2 | 11; 6 | R | Parameter channel version | 2010-01-08; V1.00 |
| 0037 | DeviceType | Var | Octet string | 1 | 8 | R | Module identification | 00 40 00 01 00 00 00 D5 _{hex} |
| Use of the device | | | | | | | | |
| 0014 | Location | Var | Visible String | 1 | 59 | R/W | Location | Can be filled out by the user. |
| 0015 | EquipmentIdent | Var | Visible String | 1 | 59 | R/W | Equipment identifier | Can be filled out by the user. |
| 0016 | AppIDeviceAddr | Var | Unsigned 16 | 1 | 2 | R/W | Application device address | Can be filled out by the user. |

12.2 Object for multilingual capacity

| Index (hex) | Object name | Object type | Data type | A | L | Rights | Meaning | Contents |
|-------------|-------------|-------------|----------------|---|------|--------|----------|----------------|
| 0017 | Language | Record | Visible String | 2 | 6; 8 | R | Language | en-us; English |

12.3 Diagnostics objects

| Index (hex) | Object name | Object type | Data type | A | L | Rights | Assignment/content |
|-------------|-------------|-------------|-----------|---|---------------------|--------|--------------------|
| 0018 | DiagState | Record | | 6 | 2; 1; 1; 2; 1; 1 | R | Diagnostic state |

Diagnostics state (0018_{hex}: DiagState)

This object is used for a structured message of an error.

| 0018 _{hex} : DiagState (read) | | | | | |
|----------------------------------------|----------------|-----------------|----------------------|----------------------------------|--------------------|
| Subindex | Data type | Length in bytes | Meaning | Contents | |
| 0 | Record | 8 | Diagnostic state | Complete diagnostics information | |
| 1 | Unsigned 16 | 2 | Error number | 0 ... 65535 _{dez} | |
| 2 | Unsigned 8 | 1 | Priority | 00 _{hex} | No error |
| | | | | 01 _{hex} | Error |
| | | | | 02 _{hex} | Warning |
| | | | | 81 _{hex} | Error removed |
| | | | | 82 _{hex} | Warning eliminated |
| 3 | Unsigned 8 | 1 | Channel/group/module | 00 _{hex} | No error |
| | | | | FF _{hex} | entire device |
| 4 | Unsigned 16 | 2 | Error code | See table below | |
| 5 | Unsigned 8 | 1 | More follows | 00 _{hex} | |
| 6 | Visible String | 1 | Text | 00 _{hex} | |



The message with priority 81_{hex} or 82_{hex} is a one-off, internal message to the bus coupler. The bus coupler transfers this error message to the error mechanisms of the higher-level system.



After all errors have been eliminated, it is automatically reset.

Error and status of the local diagnostics and status indicators

| Subindex | 2 | 3 | 4 | LED | | | |
|-------------------------------------|----------|------------------------------|---------------|-----------------------------------|----------------|--------|--------|
| Error | Priority | Channel/ group/ module | Error code | LED | | | |
| | hex | hex | hex | D | U _O | E1 | xx |
| No error | 00 | 00 | 0000 | Green ON | ON | OFF | OFF |
| Short-circuit/overload of an output | 02 | FF | 2344 | Green ON | ON | Red ON | Red ON |
| Actuator supply not present | 01 | FF | 3422 | flashing green or green/yellow | OFF | OFF | OFF |

xx LED Diagnostics of the output
xx 00 ... 03, 20 ... 23

The behavior of LED D during an "Actuator supply not present" error depends on whether you have switched error reporting via the FF8F_{hex} object on or off.

| Parameterization in FF8F _{hex} | D LED |
|-----------------------------------------|-----------------------|
| Do not report error to the controller | green |
| Report error to the controller | Flashing green/yellow |

12.4 Objects for process data management

| Index (hex) | Object name | Object type | Data type | A | L | Rights | Assignment |
|----------------|--------------|---------------------|--------------|---|---------|--------|----------------------------------------|
| 0026 | PDOOUT | Var | Octet string | 1 | 2 | R | Output process data |
| 003B | PDIN_Descr | Array of Records | | 3 | 8; 2; 2 | R | Description of the IN process data |
| 003C | PDOOUT_Descr | Array of Records | | 3 | 8; 2; 2 | R | Description of the output process data |

The objects 003B_{hex} and 003C_{hex} are only applicable to tools.

OUT process data (0026_{hex}: PDOOUT)

You can read the OUT process data of the module with this object.

The structure corresponds to the representation in the "Process data" section.

| 0026 _{hex} : PDOOUT (read) | | | |
|-------------------------------------|--------------|-----------------|---------------------|
| Subindex | Data type | Length in bytes | Meaning |
| 0 | Octet string | 2 | Output process data |

13 Application objects

| Index (hex) | Object name | Object type | Data type | A | L | Rights | Assignment |
|-------------|------------------------------------|-------------|------------|---|---|--------|---------------------------------------|
| FF8D | PD Output Substitute Configuration | Var | Unsigned 8 | 1 | 1 | R/W | Substitute value behavior |
| FF8F | DiagOut | Var | Unsigned 8 | 1 | 1 | R/W | Message "Actuator supply not present" |

In the case of valid parameters, the parameterization is stored in the module permanently.

13.1 Substitute value behavior (FF8D_{hex}: PD Output Substitute Configuration)

With this object, you parameterize the behavior of the module so that an application reset can be detected if necessary.

| FF8D _{hex} : PD Output Substitute Configuration (Read, write) | | | | |
|------------------------------------------------------------------------|-----------|-----------------|-----------------------------|-------------------------------|
| Subindex | Data type | Length in bytes | Contents | |
| 0 | Var | 1 | 00 _{hex} (Default) | "0" output to all output bits |
| | | | 01 _{hex} | Hold last value |

13.2 Message "Actuator supply not present" (FF8F_{hex}: DiagOut)

With this object, you parameterize whether the "Actuator supply missing" error is reported to the controller or not.

If you parameterize the module so that the error is not reported to the controller, the corresponding indicator in LED D (flashing green/yellow) is suppressed and the LED lights up green.

| FF8F _{hex} : DiagOut (Read, write) | | | | |
|---------------------------------------------|-----------|-----------------|-----------------------------|---------------------------------------|
| Subindex | Data type | Length in bytes | Contents | |
| 0 | Var | 1 | 00 _{hex} (Default) | Do not report error to the controller |
| | | | 01 _{hex} | Report error to the controller |

14 Device descriptions

The device is described in the device description files.

The device descriptions for controllers from Phoenix Contact are included in PC Worx and the corresponding service packs.

The device description files for other systems are available for download at phoenixcontact.net/products in the download area of the bus coupler used.