

## Safety module - AXL F PSDO8/3 1F - 2701560

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Safety-related digital output module, degree of protection IP20, for use in PROFIsafe systems. The module has 4 safe digital outputs for two-channel assignment or 8 safe digital outputs for single-channel assignment.

### Product Description


The safety module is an output module from the AxioLine F product range designed for use in a PROFIsafe system. The module has four safe digital outputs for two-channel assignment or eight safe digital outputs for single-channel assignment. The outputs can be parameterized according to the application and enable the integration of actuators in the PROFIsafe system.

### Your advantages

- Up to SIL 3 according to EN 61508
- Up to SILCL 3 according to EN 62061
- Up to cat. 4/PL e according to EN ISO 13849-1



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 046356 769938 |
| GTIN         | 4046356769938   |

### Technical data

#### Dimensions

|                    |                    |
|--------------------|--------------------|
| Width              | 53.6 mm            |
| Height             | 126.1 mm           |
| Depth              | 54 mm              |
| Note on dimensions | Housing dimensions |

#### Ambient conditions

|  |  |
|--|--|
| Ambient temperature (operation)          | -35 °C ... 60 °C (Mounting position: any)                    |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C   |
| Permissible humidity (operation)         | 10 % ... 75 % (on average, 85% infrequently, non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 75 % (non-condensing)                               |

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## Technical data

### Ambient conditions

|                                  |   |
|----------------------------------|---|
| Air pressure (operation)         | 70 kPa ... 108 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 66 kPa ... 108 kPa (up to 3500 m above sea level) |
| Degree of protection             | IP20  |

### Connection data

|                                       |                      |
|---------------------------------------|----------------------|
| Designation                           | Axioline F connector |
| Connection method                     | Push-in connection   |
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.    | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.      | 24                   |
| Conductor cross section AWG max.      | 16                   |

### Interfaces

|                   |                      |
|-------------------|----------------------|
| Designation       | Axioline F local bus |
| Connection method | Bus base module      |

### Digital outputs

|  |  |
|--|--|
| Output name  | Digital outputs  |
| Connection method                                  | Direct plug-in technology  |
| Connection technology                              | 2, 3-wire  |
| Number of outputs                                  | 4 (with two-channel assignment)  |
|  | 8 (for single-channel assignment)  |
|  | 8  |
| Protective circuit                                 | Overload protection, freewheeling circuit for inductive loads, Discharge circuit for accelerated discharge of capacitive loads |
| Output voltage                                     | 24 V DC  |
| Output current                                     | max. 2 A (per channel)   |
|  | max. 1.5 A (per channel according to CUL <sub>US</sub> )   |
|  | max. 4 A (per group)   |
|  | max. 3 A (per group according to CUL <sub>US</sub> )   |
|  | max. 8 A (Total current of all outputs; Please observe the notes in the user manual.)  |
|  | max. 6 A (Total current of all outputs according to CUL <sub>US</sub> )  |
| Maximum output current per channel                 | 2 A  |
| Maximum output current per module / terminal block | 8 A  |
| Behavior with overload                             | Affected output is disabled and a diagnostic message is generated.   |

### General

|               |          |
|---------------|----------|
| Mounting type | DIN rail |
| Color         | yellow   |
| Net weight    | 222 g    |

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## Technical data

### General

|                               |                                     |
|-------------------------------|-------------------------------------|
| Note on weight specifications | with connectors and bus base module |
|-------------------------------|-------------------------------------|

### Axioline potentials

|                      |  |
|----------------------|--|
| Designation          | Axioline F local bus supply ( $U_{Bus}$ )  |
| Supply voltage       | 5 V DC (via bus base module)   |
| Current consumption  | typ. 260 mA (all outputs set; power supply by $U_o$ of 19.2 V DC to 30.2 V DC)                           |
|                      | max. 280 mA  |
| Designation          | Supply for digital output modules ( $U_o$ )  |
| Supply voltage       | 24 V DC  |
| Supply voltage range | 19.2 V DC ... 30.2 V DC (including all tolerances, including ripple)                                     |
| Current consumption  | typ. 25 mA (all outputs set; power supply by $U_o$ with 30.2 V DC; without power supply to the actuator) |
| Protective circuit   | Protection against polarity reversal, EMC protective circuit, undervoltage detection                     |

### Safety-related characteristic data

|   |  |
|---|--|
| Designation                                 | IEC 61508 - High demand  |
| Safety Integrity Level (SIL)                | max. 3 (two channel; dependent in parameterization and wiring) |
| Designation                                 | IEC 61508 - Low demand   |
| Safety Integrity Level (SIL)                | max. 3 (two channel; dependent in parameterization and wiring) |
| Designation                                 | EN ISO 13849   |
| Performance level (PL)                      | max. e (two channel; dependent in parameterization and wiring) |
| Category                                    | max. 4 (two channel; dependent in parameterization and wiring) |
| Designation                                 | EN 62061   |
| Safety Integrity Level Claim Limit (SIL CL) | max. 3 (two channel; dependent in parameterization and wiring) |

### Standards and Regulations

|                  |                                       |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

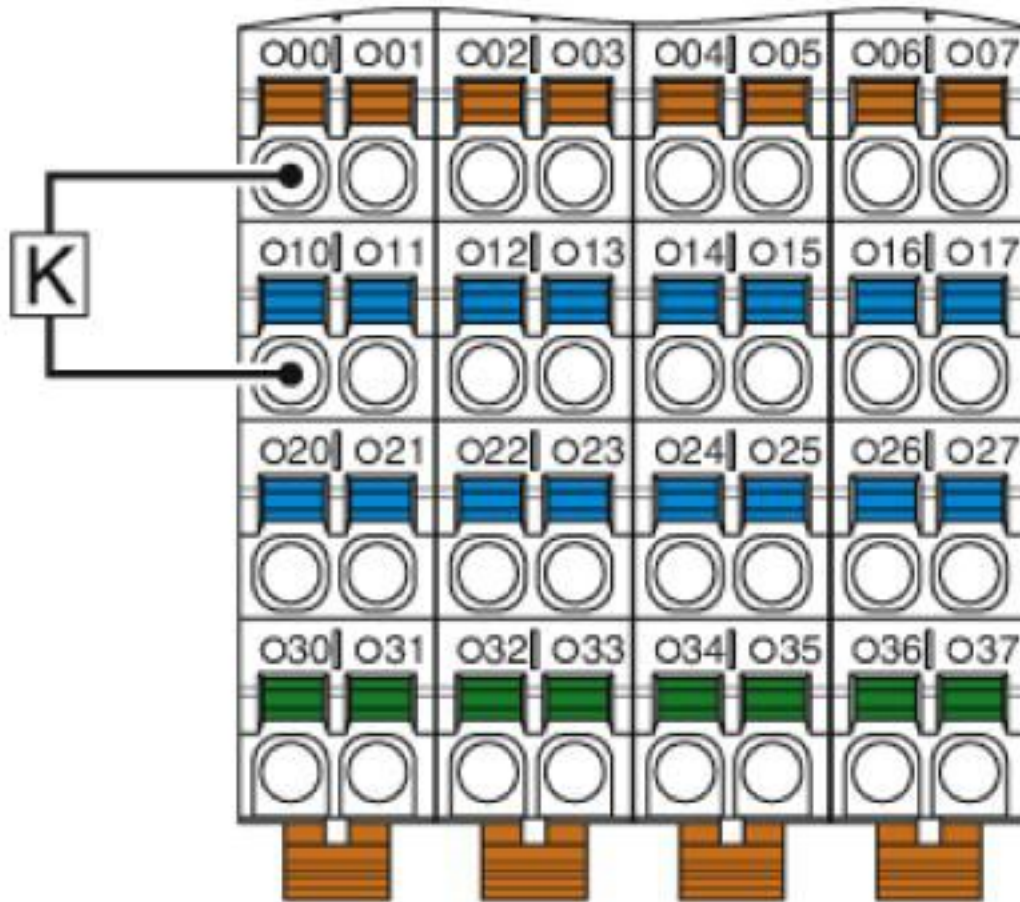
### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

# Safety module - AXL F PSDO8/3 1F - 2701560

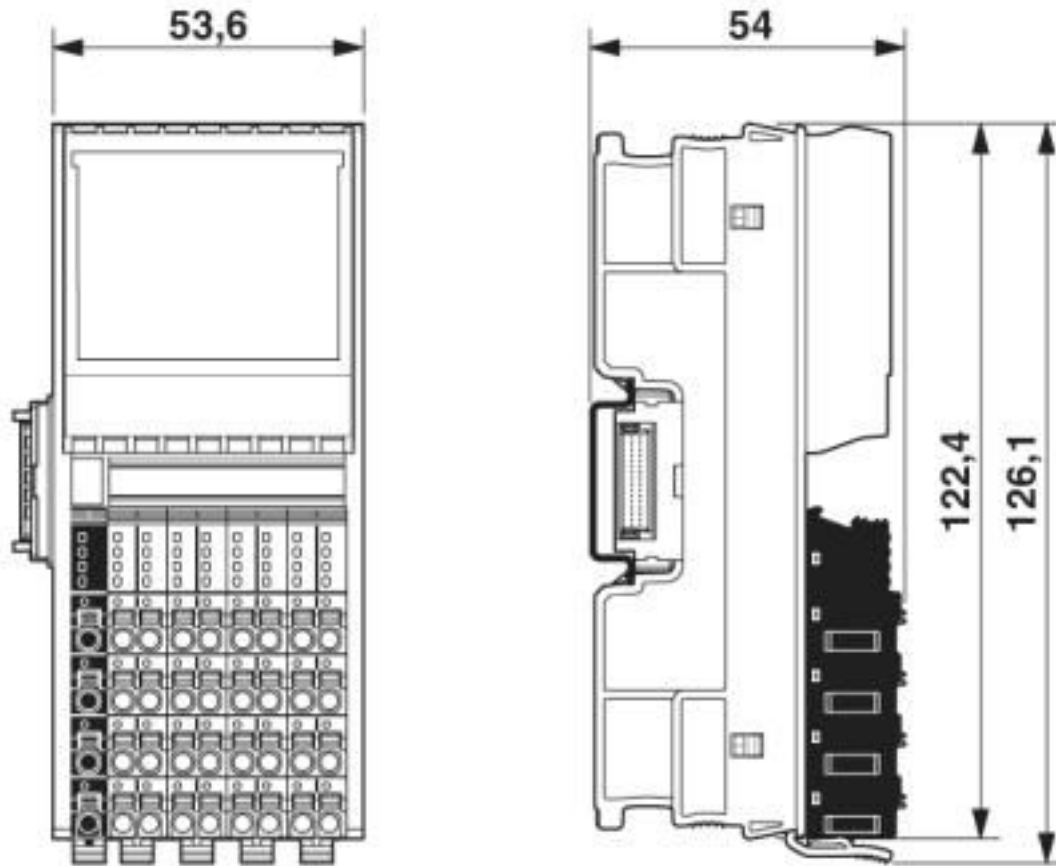
Connection diagram



Example connection of a contactor

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Dimensional drawing



## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27242604 |
| eCl@ss 4.0    | 27250300 |
| eCl@ss 4.1    | 27250300 |
| eCl@ss 5.0    | 27250300 |
| eCl@ss 5.1    | 27242900 |
| eCl@ss 6.0    | 27242600 |
| eCl@ss 7.0    | 27242604 |
| eCl@ss 8.0    | 27242604 |
| eCl@ss 9.0    | 27242604 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001617 |
| ETIM 4.0 | EC001449 |
| ETIM 5.0 | EC001599 |
| ETIM 6.0 | EC001599 |
| ETIM 7.0 | EC001599 |

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## Classifications

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201404 |
| UNSPSC 13.2   | 32151602 |
| UNSPSC 18.0   | 32151602 |
| UNSPSC 19.0   | 32151602 |
| UNSPSC 20.0   | 32151602 |
| UNSPSC 21.0   | 32151602 |

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / PROFIsafe / Functional Safety / cULus Listed

#### Ex Approvals

### Approval details

|           |  |   |               |
|-----------|--|---|---------------|
| UL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|-----------|--|---|---------------|

|            |  |   |               |
|------------|--|---|---------------|
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|------------|--|---|---------------|

|           |        |
|-----------|--------|
| PROFIsafe | Z20121 |
|-----------|--------|

|                   |  |                  |
|-------------------|--|------------------|
| Functional Safety |  | 968/EZ 650.00/14 |
|-------------------|--|------------------|

|              |  |
|--------------|--|
| cULus Listed |  |
|--------------|--|

## Safety module - AXL F PSDO8/3 1F - 2701560

### Accessories

#### Accessories

#### Device marking

Insert label - EMT (35X28)R - 0801602



Insert label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: snapped into marker carrier, lettering field size: 35 x 28 mm, Number of individual labels: 500

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### DIN rail connector

Bus connector - AXL F BS F - 2688129



Axiline F bus base module for housing type F

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### Terminal marking

Zack marker strip - ZB 20,3 AXL UNPRINTED - 0829579



Zack marker strip for Axiline 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

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Zack Marker strip, flat - ZBF 10/5,8 AXL UNPRINTED - 0829580



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 10.15 mm, lettering field size: 4 of 10.15 x 5 mm and 1 of 5.8 x 5 mm, Number of individual labels: 50

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