

AXL F PSDOR4/2 1F - Safety module



2702858

<https://www.phoenixcontact.com/us/products/2702858>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Axioline F, Relay module, Functional safety, PROFIsafe, only for connection to Phoenix Contact or Siemens controller, Signal inputs: 2, Outputs OUT24V_0 and OUT24V_1: 2, Safe relay outputs: 4 (floating), N/O contact, degree of protection: IP20

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2702858 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN03 |
| Product key | DNA532 |
| GTIN | 4055626363271 |
| Weight per piece (including packing) | 270 g |
| Weight per piece (excluding packing) | 218 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

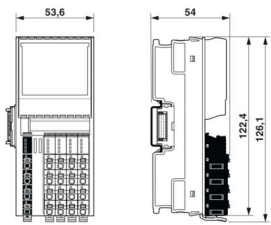
AXL F PSDOR4/2 1F - Safety module

2702858

<https://www.phoenixcontact.com/us/products/2702858>

Technical data

Dimensions

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

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Material specifications

| | |
|-----------------|-------------------|
| Color (Housing) | yellow (RAL 1018) |
|-----------------|-------------------|

Interfaces

Axioline F local bus

| | |
|-------------------|-----------------|
| Connection method | Bus base module |
|-------------------|-----------------|

System properties

Programming data (LocalbusSlave)

| | |
|---------------------|--------|
| Input address area | 5 Byte |
| Output address area | 6 Byte |

Fieldbus data telegram

| | |
|-----------------------------|---------------------------------|
| Required parameter data | 20 Byte ((I- and F-parameters)) |
| Required configuration data | 10 Byte |

Input data

Digital:

| | |
|-----------------------------------|---|
| Input name | Signal inputs |
| Number of inputs | 2 |
| Input voltage | Power supply from clock outputs UT1 and UT2 |
| Nominal input current at U_{IN} | typ. 3.2 mA |

AXL F PSDOR4/2 1F - Safety module



2702858

<https://www.phoenixcontact.com/us/products/2702858>

Output data

Digital:

| | |
|------------------------|----------------------------------|
| Output name | Outputs OUT24V_0 and OUT24V_1 |
| Number of outputs | 2 |
| Nominal output voltage | Power supply from U_0 or U_1 |

Relay

| | |
|-----------------------------|--|
| Number of outputs | 4 (floating) |
| Contact switching type | N/O contact |
| Switching voltage | min. 12 V AC/DC max. 30 V AC/DC |
| Switching current | min. 3 mA max. 6 A (30 V DC) |
| Switching power | min. 60 mW |
| Limiting continuous current | 6 A |
| Mechanical service life | 10x 10 ⁶ cycles |
| Output fuse | 6 A gL/gG (See "Application examples" section) |

Product properties

| | |
|-------------------|--|
| Product type | I/O component |
| Product family | Axioline F |
| Application | Functional safety PROFIsafe only for connection to Phoenix Contact or Siemens controller |
| Type | modular |
| Mounting position | any |
| Operating mode | PROFIsafe 2.4, PROFIsafe 2.6.1 |

Insulation characteristics

| | |
|----------------------|------------------|
| Overvoltage category | II (IEC 60664-1) |
| Pollution degree | 2 (IEC 60664-1) |

Electrical properties

| | |
|---|---------|
| Maximum power dissipation for nominal condition | 6.255 W |
| Transmission medium | Copper |

Potentials

| | |
|--------------------|---|
| Protection | max. 500 mA slow-blow (for U_1) max. 6 A gL/gG (For U_0 and U_1 respectively) |
| Protective circuit | Polarity reversal protection of the supply voltage; parallel protection against polarity reversal for a limited period of time Surge voltage detection; at 31 V Undervoltage detection; at 17 V Surge protection of the supply voltage; electronic (35 V, 0.5 s) |

AXL F PSDOR4/2 1F - Safety module



2702858

<https://www.phoenixcontact.com/us/products/2702858>

Potentials: Axioline F local bus supply (U_{Bus})

| | |
|----------------|-----------------------------------|
| Supply voltage | 5 V DC (via bus base module) |
| Current draw | max. 163 mA (at U_{Bus} 5 V DC) |
| | typ. 93 mA (at U_{Bus} 5 V DC) |

Potentials: Supply voltage U_1 for EDM

| | |
|----------------------|--|
| Supply voltage | 24 V DC |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current draw | max. 30 mA |
| | typ. 10 mA (Power supply from U_1 with 30 V DC, all inputs set) |

Potentials: Feed-in U_0 and U_1 for safe I/O supply

| | |
|----------------------|---|
| Supply voltage | 24 V DC |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current draw | max. 6 A |
| | typ. 1.6 mA (Power supply from U_0 with 30 V DC, all inputs set without load) |

Connection data

Connection technology

| | |
|-------------------------------|--|
| Connection name | I/O |
| Note on the connection method | Note the specification in the section Conductor cross-sections, and stripping and insertion lengths. |

I/O

| | |
|-----------------------------------|--|
| Connection method | Push-in connection |
| Note on the connection method | Note the specification in the section Conductor cross-sections, and stripping and insertion lengths. |
| Conductor cross-section, rigid | 0.5 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible | 0.5 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 20 ... 16 |
| Stripping length | 8 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|---|--------------------|
| Ambient temperature (operation) | -35 °C ... 60 °C |
| Degree of protection | IP20 |
| Degree of protection at installation location | min. IP54 |
| Air pressure (operation) | 70 kPa ... 108 kPa |
| Air pressure (storage/transport) | 66 kPa ... 108 kPa |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Mechanical test

| | |
|--|-----|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | 2g |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | 15g |

AXL F PSDOR4/2 1F - Safety module



2702858

<https://www.phoenixcontact.com/us/products/2702858>

| | |
|--|-----|
| Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27 | 10g |
|--|-----|

Standards and regulations

| | |
|------------------|-------------------|
| Protection class | III (IEC 61140-1) |
|------------------|-------------------|

Air clearances and creepage distances

| | |
|---------------------------------------|-------------|
| Air clearances and creepage distances | IEC 60664-1 |
|---------------------------------------|-------------|

Mounting

| | |
|-------------------|-------------------|
| Mounting type | DIN rail mounting |
| Mounting position | any |

AXL F PSDOR4/2 1F - Safety module

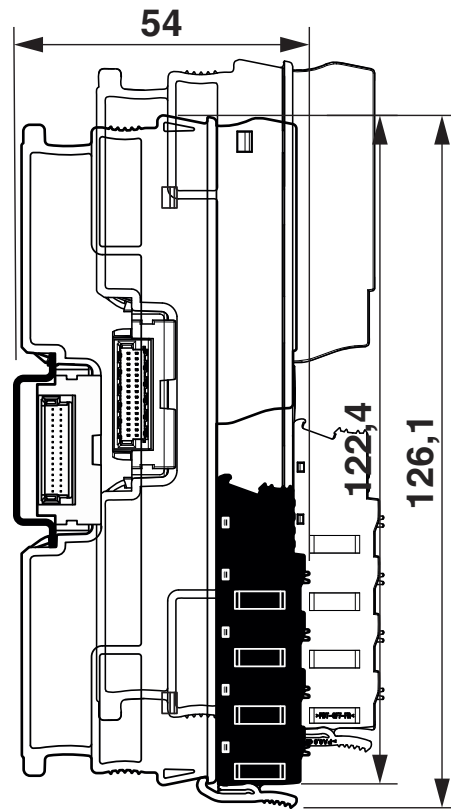
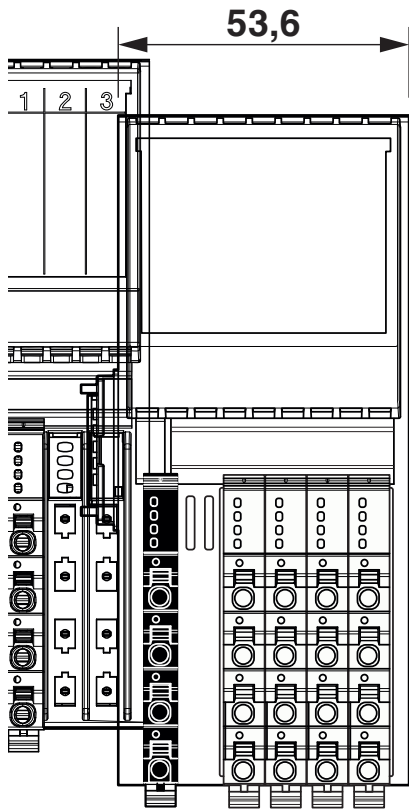
2702858

<https://www.phoenixcontact.com/us/products/2702858>



Drawings

Dimensional drawing



AXL F PSDOR4/2 1F - Safety module



2702858

<https://www.phoenixcontact.com/us/products/2702858>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702858>



DNV GL

Approval ID: TAA00000DF

PROFIsafe

Approval ID: Z20274

BSH

Approval ID: 840



cULus Listed

Approval ID: E238705

FS Thermoprocess

Approval ID: 968 INS 799.01 25

AXL F PSDOR4/2 1F - Safety module



2702858

<https://www.phoenixcontact.com/us/products/2702858>

Classifications

ECLASS

| | |
|-------------------|----------|
| ECLASS-13.0 | 27242604 |
| ECLASS-15.0 | 27242604 |
| ECLASS-15.0 ASSET | 27250101 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001599 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

2702858

<https://www.phoenixcontact.com/us/products/2702858>

Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 8de11d23-404a-4c5d-9514-882fcd67e831 |

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com