

# AXL F PSDOR4/2 1F - Safety module



2702858

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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, max. 30 V DC, 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

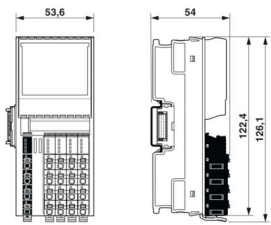
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## Technical data

### 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
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### Material specifications

Color (Housing)	yellow (RAL 1018)
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### Interfaces

#### Axioline F local bus

Connection method	Bus base module
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### 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

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## 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 <sup>6</sup> 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)

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## 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 <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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

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Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g
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## Standards and regulations

Protection class	III (IEC 61140-1)
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### Air clearances and creepage distances

Air clearances and creepage distances	IEC 60664-1
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## Mounting

Mounting type	DIN rail mounting
Mounting position	any

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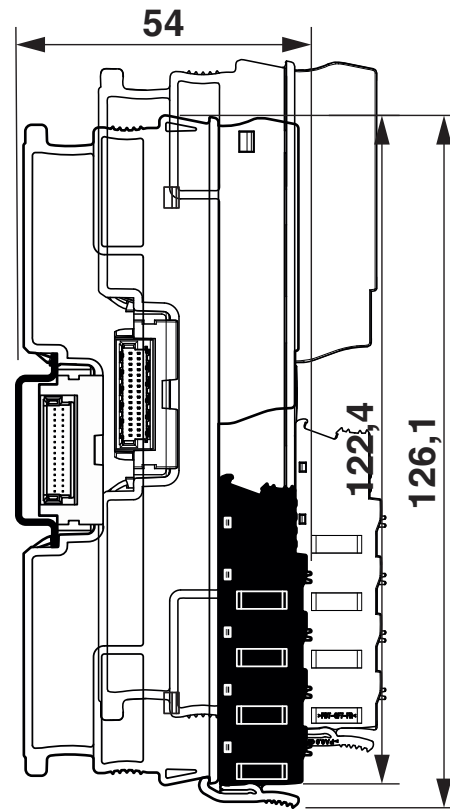
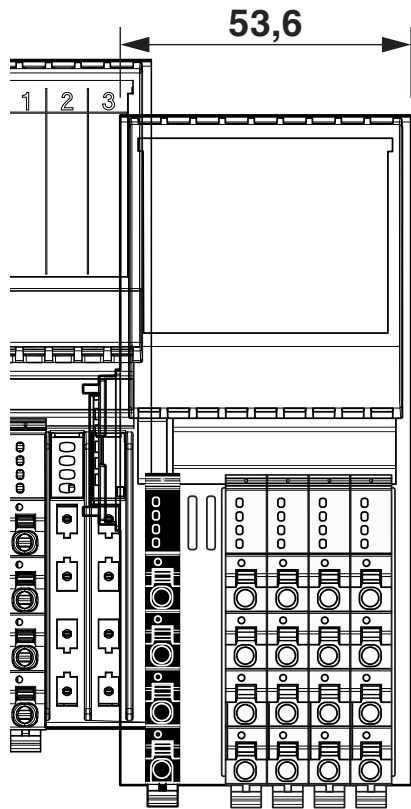
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## Drawings

Dimensional drawing



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## Approvals

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**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

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## Classifications

### ECLASS

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

### ETIM

ETIM 10.0	EC001599
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### UNSPSC

UNSPSC 21.0	32151600
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## 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

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