

# Safety module - AXL F PSDOR4/2 1F



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, degree of protection: IP20

## Commercial Data

Item number	2702858
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNA532
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

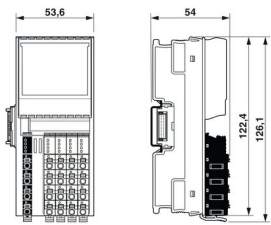
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## Technical Data

### Dimensions

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

### Interfaces

#### Axioline F local bus

Connection method	Bus base module
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### System properties

#### Module

Input address area	5 Byte
Output address area	6 Byte
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

### 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 type	N/O contact

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Switching voltage	min. 12 V AC/DC
	max. 30 V AC/DC
Switching current	min. 3 mA
	max. 6 A (30 V DC)
Switching capacity	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

Type	modular
Product type	I/O component
Mounting position	any
Application	Functional safety
	PROFIsafe
	only for connection to Phoenix Contact or Siemens controller
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

Transmission medium	Copper
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## Potentials

Protection	max. 500 mA slow-blow (for U <sub>I</sub> )
	max. 6 A gL/gG ( )
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)

## Potentials: Axioline F local bus supply (U<sub>Bus</sub>)

Supply voltage	5 V DC (via bus base module)
Current draw	max. 163 mA (at U <sub>Bus</sub> 5 V DC)
	typ. 93 mA (at U <sub>Bus</sub> 5 V DC)

## Potentials: Supply voltage U<sub>I</sub> 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 <sub>I</sub> with 30 V DC, all inputs set)

## Potentials: Feed-in U<sub>0</sub> and U<sub>1</sub> for safe I/O supply

Supply voltage	24 V DC
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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 <sub>0</sub> 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.

### Conductor connection

Connection method	Push-in connection
Conductor cross section solid	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

### 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

## 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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## Classifications

### ECLASS

ECLASS-9.0	27242604
ECLASS-10.0.1	27242604
ECLASS-11.0	27242604

### ETIM

ETIM 8.0	EC001599
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### UNSPSC

UNSPSC 21.0	32151600
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