

Safety module - AXL F SSDOR4/2 1F



2702859

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Safety-related distributed relay output module, IP20 degree of protection, for SafetyBridge systems. The module has four safe relay outputs, each with one floating contact.

Commercial Data

Item number	2702859
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNA532
Product Key	DNA532
GTIN	4055626363295
Weight per Piece (including packing)	270 g
Weight per Piece (excluding packing)	218 g
Customs tariff number	85371098
Country of origin	DE

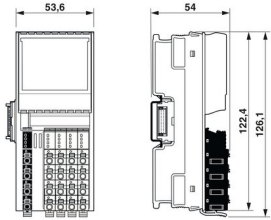
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Technical Data

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	8 Byte
Output address area	8 Byte
Required parameter data	1 Byte
Required configuration data	7 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 ⁶ cycles
Output fuse	6 A gL/gG (See "Application examples" section)

Product properties

Type	modular
Product type	I/O component
Mounting position	any
Operating mode	SafetyBridge

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 ₁)
	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_{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 U₁ for EDM

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30.2 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 U₀ and U₁ 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

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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.

Conductor connection

Connection method	Push-in connection
Conductor cross section solid	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

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

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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PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk