

AXL F PSRTD8 1F - Safety module

1374265

<https://www.phoenixcontact.com/us/products/1374265>



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Axioline F, Temperature recording module, Functional safety, Inputs for resistive temperature sensors, PROFIsafe, only for connection to Phoenix Contact or Siemens controller, Safe analog inputs: 8 (1-channel assignment), 4 (2-channel assignment), connection technology: 2-, 3-, 4-conductor (shielded), transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connectors

Your advantages

- 8 safe inputs for 1-channel assignment
- 4 safe inputs for 2-channel assignment

Commercial data

Item number	1374265
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN03
Product key	DNA522
GTIN	4063151733094
Weight per piece (including packing)	244.47 g
Weight per piece (excluding packing)	189.88 g
Customs tariff number	85389099
Country of origin	DE

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Technical data

Dimensions

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
Transmission speed	100 Mbps

System properties

Programming data

Input address area	22 Byte
Output address area	5 Byte

Input data

Analog:

Input name	Safe analog inputs
Description of the input	Inputs for resistive temperature sensors
Number of inputs	8 (1-channel assignment)
	4 (2-channel assignment)
Connection method	Push-in connection
Connection technology	2-, 3-, 4-conductor (shielded)
A/D converter resolution	24 bit
Sensor types (RTD) that can be used	Pt, Ni, KTY sensors
Tolerance, relative	see tables for tolerance values
Tolerance, absolute	see tables for tolerance values
Data formats	Standardized representation
Measured value representation	16 bits (15 bits + sign bit)
Nominal value of the current sources	100 μ A
Linear resistance measuring range	0 Ω ... 327.67 Ω (Resolution: 0.01 Ω 
	0 Ω ... 3276.7 Ω (Resolution: 0.1 Ω 

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	0 k Ω ... 5400 Ω (Resolution: 1 Ω 
Protective circuit	Short-circuit protection, overload protection of the inputs
	Transient protection of inputs; Suppressor diode
	Transient protection of sensor supplies

Product properties

Product type	I/O component
Product family	Axioline F
Application	Functional safety
	Inputs for resistive temperature sensors
	PROFIsafe
	only for connection to Phoenix Contact or Siemens controller
Type	modular
Mounting position	any
Scope of supply	including bus base module and Axioline F connectors
Operating mode	PROFIsafe 2.6.1

Insulation characteristics

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

Electrical properties

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

Supply voltage	5 V DC (via bus base module)
Current draw	typ. 115 mA (at U_{Bus} 5 V DC)

Potentials: I/O supply (U_A)

Supply voltage	24 V DC (Power connector)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 10 mA
Protective circuit	Surge protection
	Reverse polarity protection (serial)
	Undervoltage detection; at 16.8 V
	Surge voltage detection; yes, at 33.5 V
Protection	max. 8 A (slow-blow, required externally)

Connection data

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	0.2 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross-section AWG	24 ... 16
Stripping length	8 mm

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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
Note	Recommendation Do not use the AXL F PSRTD8 1F in an atmosphere that contains corrosive gas.
Air pressure (operation)	70 kPa ... 108 kPa
Air pressure (storage/transport)	66 kPa ... 108 kPa
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	30g
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g

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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Approvals

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cULus Listed

Approval ID: E238705

PROFIsafe

Approval ID: Z20396

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Classifications

ECLASS

ECLASS-13.0	27242601
ECLASS-15.0	27242601

ETIM

ETIM 10.0	EC001596
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Environmental product compliance

EU RoHS

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

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)
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