

AXL F PSAI8 I XC 1F - Safety module



1369869

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Axioline F, Analog input module, Functional safety, PROFIsafe, Only for connection to Phoenix Contact or Siemens controllers in PROFINET systems, Safe analog inputs: 8 (1-channel assignment), 4 (2-channel assignment), 4 mA ... 20 mA, connection technology: 2-conductor (shielded, twisted pair), degree of protection: IP20

Your advantages

- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508
- Safe analog value acquisition 4 ... 20 mA
- 8 safe inputs for 1-channel assignment
- 4 safe inputs for 2-channel assignment

Commercial data

Item number	1369869
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNA522
GTIN	4063151727208
Weight per piece (including packing)	235 g
Weight per piece (excluding packing)	222 g
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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System properties

Module

Input address area	22 Byte (PROFIsafe 2.6.1)
Output address area	5 Byte (PROFIsafe 2.6.1)
Required configuration data	31 Byte

Input data

Analog:

Input name	Safe analog inputs
Number of inputs	8 (1-channel assignment)
	4 (2-channel assignment)
A/D converter resolution	16 bit
Connection method	Push-in connection
Connection technology	2-conductor (shielded, twisted pair)
Current input signal	4 mA ... 20 mA
Input resistance current input	typ. 104 Ω
Data formats	Standardized representation
Input filter	30 Hz
Filtering	RFI filtering / passive TP 1st order
Limit frequency (3 dB)	30 Hz
Measured value representation	16 bits
Protective circuit	Transient protection of inputs; Suppressor diode
	Overload protection; No; ± 5.2 V DC, maximum, $I_{\max} = 50$ mA

Product properties

Product type	I/O component
Product family	Axioline F
Application	Functional safety
	PROFIsafe

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	Only for connection to Phoenix Contact or Siemens controllers in PROFINET systems
Type	modular
Mounting position	any
Operating mode	PROFIsafe 2.6.1

Insulation characteristics

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

Electrical properties

Maximum power dissipation for nominal condition	1.8 W
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Potentials: Axioline F local bus supply (U_{BUS})

Supply voltage	5 V DC (via bus base module)
Current draw	max. 110 mA (at U_{BUS} 5 V DC) typ. 105 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. 31 mA typ. 25.5 mA (Power supply from U_A with 30 V DC)
Protective circuit	Surge protection; electronic (35 V, 0.5 s) Reverse polarity protection (parallel) Undervoltage detection; at 17 V Surge voltage detection; No

Connection data

Conductor connection

Connection method	Push-in connection
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
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

Environmental and real-life conditions

Ambient conditions

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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 PSAI8 I 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)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Air clearances and creepage distances

Air clearances and creepage distances	IEC 60664-1
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Approvals

ATEX

Identification	⊕ II 3 G Ex ec IIC T4 Gc
Certificate	UL 22 ATEX 2909X
References to standards	EN IEC 60079-0, EN IEC 60079-7

IECEx

Identification	Ex ec IIC T4 Gc
Certificate	IECEx ULD 22.0036X
References to standards	IEC 60079-0 Ed. 7, IEC 60079-7 Ed. 5.1

UKEX

Identification	⊕ II 3 G Ex ec IIC T4 Gc
Certificate	UL23UKEX2855X
References to standards	EN IEC 60079-0, EN IEC 60079-7

CCC / China-Ex

Identification	Ex ec IIC T4 Gc
Certificate	2023122310116913
References to standards	EN IEC 60079-0, EN IEC 60079-7

UL, USA/Canada

Identification	cULus
Certificate	E238705

UL Ex, USA / Canada

Identification	Class I, Zone 2, AEx ec IIC T4, Ex ec IIC T4 Gc X
	Class I, Division 2, Groups A, B, C, D, T4
Certificate	E366272
References to standards	UL 60079-0 Ed. 7 / CSA C22.2 NO. 60079-0 Ed. 4

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	UL 60079-7 Ed. 5 / CSA C22.2 NO. 60079-7 Ed. 2
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Mounting

Mounting position	any
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Approvals

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DNV GL

Approval ID: TAA00000DF

BSH

Approval ID: 840

PROFIsafe

Approval ID: Z20361



IECEx

Approval ID: IECEx ULD 22.0036X



ATEX

Approval ID: UL 22 ATEX 2909X



UKCA-EX

Approval ID: UL23UKEX2855X

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Classifications

ECLASS

ECLASS-11.0	27242601
ECLASS-12.0	27242601
ECLASS-13.0	27242601

ETIM

ETIM 9.0	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)
SCIP	134aa207-08db-4104-9bfa-4a692313bbac

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Accessories

AXL F BS F - Bus connector

2688129

<https://www.phoenixcontact.com/in/products/2688129>

Axioline F bus base module for housing type F



ZB 20,3 AXL UNPRINTED - Zack marker strip

0829579

<https://www.phoenixcontact.com/in/products/0829579>



Zack marker strip for Axioline F (device labeling), in 2 x 20.3 mm pitch, unprinted, 25-section, for individual labeling with B-STIFT 0.8, X-PEN, or CMS-P1-PLOTTER

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ZBF 10/5,8 AXL UNPRINTED - Zack Marker strip, flat

0829580

<https://www.phoenixcontact.com/in/products/0829580>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 10.15 mm, Number of individual labels: 50, text field height: 5 mm, text field width: 10.15 mm

EMT (35X46)R - Insert label

0801604

<https://www.phoenixcontact.com/in/products/0801604>



Insert label, for marking the Axioline F series from Phoenix Contact, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: insert, Number of individual labels: 500, text field height: 46 mm, text field width: 35 mm

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EMT (35X46)R YE - Insert label

0801605

<https://www.phoenixcontact.com/in/products/0801605>



Insert label, for marking the Axioline F series from Phoenix Contact, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: insert, Number of individual labels: 500, text field height: 46 mm, text field width: 35 mm

SZS 0,4X2,5 VDE - Screwdriver

1205037

<https://www.phoenixcontact.com/in/products/1205037>



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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CRIMPFOX 6 - Crimping pliers

1212034

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Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

CRIMPFOX DUO 10 - Crimping pliers

1031721

<https://www.phoenixcontact.com/in/products/1031721>



Crimping pliers, contact connection type: Insulated and uninsulated ferrules, standards/specifications: DIN 46228-1, DIN 46228-4, UL 486F, form A, E, F, min. cross section: 0.14 mm², max. cross section: 10 mm², for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, rotating die, lateral and frontal insertion, compression: Trapezoidal crimp, weight 305 g, black/green

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CRIMPFOX 10T-F - Crimping pliers

1134913

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Crimping pliers, contact connection type: Insulated and uninsulated ferrules, standards/specifications: DIN 46228-1, DIN 46228-4, min. cross section: 0.14 mm², max. cross section: 10 mm², For TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, frontal insertion, compression: Trapezoidal crimp, weight 302 g, black

AXL SHIELD SET - Shield connection

2700518

<https://www.phoenixcontact.com/in/products/2700518>



Axiline shield connection set (contains 2 shield bus holders and 2 SK 5 shield connection clamps)

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