

AXL P AI8 P HART 1F - Analog module



1215392

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Axioline P, Analog input module, Passive analog inputs: 8 (HART), 0 mA ... 20 mA, 4 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, HART functionality, degree of protection: IP20, including bus base module and Axioline P connectors

Product description

The module is an Axioline P I/O module for use in the Axioline P modular I/O system. The module is a modular I/O device that can be affixed to the Axioline P local bus, to communicate I/O data up to the Axioline P bus coupler, which forms the head of the station. The analog input I/O module with HART capabilities collects analog input and HART data from the field I/O terminals and makes this information available to the bus coupler through the Axioline P local bus. The passive analog input module allows the connection of up to eight HART enabled, active analog input signals. The module is fully hot-swappable and may be removed while under power.

Your advantages

- Passive analog input module
- Sinks power from up to eight HART enabled, active analog input signals
- Cyclic access to PV, SV, TV, QV, and Loop Current
- Current ranges: 0 mA ... 20 mA, 4 mA ... 20 mA
- Can be used under extreme ambient conditions
- Temperature range: -40 °C ... +70 °C
- Hot-swappable

Commercial data

Item number	1215392
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	DRIP41
GTIN	4063151295233
Weight per piece (including packing)	372.3 g
Weight per piece (excluding packing)	249 g
Customs tariff number	85176200
Country of origin	US

AXL P AI8 P HART 1F - Analog module

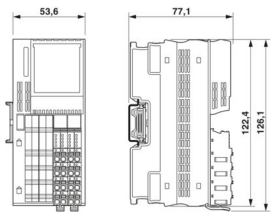


1215392

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Technical data

Dimensions

Dimensional drawing	
Width	53.6 mm
Height	126.1 mm
Depth	77.1 mm
Note on dimensions	The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).

Notes

Note on application	
Note on application	Only for industrial use
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

Interfaces

Axioline P local bus	
Number of interfaces	2
Connection method	Bus base module
Transmission speed	100 Mbps

System properties

Module	
Input address area	48 Byte
Output address area	0 Byte

Input data

Analog:	
Input name	Passive analog inputs
Description of the input	HART enabled passive analog input signals
Number of inputs	8 (HART)
A/D conversion time	500 µs
A/D converter resolution	12 bit
Connection method	Push-in connection

AXL P AI8 P HART 1F - Analog module



1215392

<https://www.phoenixcontact.com/in/products/1215392>

Connection technology	2-conductor
Note regarding the connection technology	shielded, twisted pair
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
Data formats	Inline, S7-compatible, standard formatting
Limit frequency (3 dB)	11 Hz
Measured value representation	16 bits (15 bits + sign bit)
Protective circuit	Polarity reversal protection of the inputs

Product properties

Product type	I/O component
Product family	Axioline P
Type	block modular
Mounting position	any (no temperature derating)
Scope of delivery	including bus base module and Axioline P connectors
Special properties	HART functionality

Insulation characteristics

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

Electrical properties

Maximum power dissipation for nominal condition	2.15 W
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Potentials: Supply voltage (U_L)

Supply voltage	24 V DC (via bus base module)
Supply voltage range	19.2 V DC ... 30 V DC
Current draw	max. 27 mA (via bus base module)
	typ. 22 mA (via bus base module)
Protective circuit	Surge protection; electronic (35 V, 0.5 s)
	Reverse polarity protection; Polarity protection diode
	Transient protection; Suppressor diode

Potentials: Axioline P local bus supply (U_{BUS})

Supply voltage	5 V DC (via bus base module)
Current draw	max. 135 mA
	typ. 110 mA

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply of the local bus (U_{BUS}) / functional ground	500 V AC, 60 Hz, 1 min
Test voltage: 5 V supply of the local bus (U_{BUS}) / analog inputs	1500 V AC, 60 Hz, 1 min
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 60 Hz, 1 min
Test voltage: 24 V supply (I/O) / analog inputs	1500 V AC, 60 Hz, 1 min
Test voltage: Analog inputs / functional ground	500 V AC, 60 Hz, 1 min

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1215392

<https://www.phoenixcontact.com/in/products/1215392>

Connection data

Connection technology

Connection name	Axioline P connector
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline P: system and installation" user manual.

Conductor connection

Connection method	Push-in connection
Conductor cross section rigid	0.2 mm² ... 1.5 mm²
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16
Stripping length	8 mm

Axioline P connector

Connection method	Push-in connection
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline P: system and installation" user manual.
Conductor cross section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 2000 m above sea level)
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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Approvals

ATEX

Identification	II 3G Ex ec IIC T4 Gc
Certificate	DEMKO 20 ATEX 2334X

IECEX

Identification	Ex ec IIC T4 Gc
Certificate	IECEX UL 20.0002X

AXL P AI8 P HART 1F - Analog module



1215392

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UKCA Ex (UKEX)

Identification	II 3G Ex ec IIC T4 Gc
Certificate	PxCAI22UKEx1052416X

UL, USA/Canada

Identification	cULus
Certificate	E238705

UL Ex, USA / Canada

Identification	Class I, Division 2, Groups A, B, C, D, T4
	Class I, Zone 2, IIC T4
Certificate	E196811

CCC / China-Ex

Identification	Ex ec IIC T4 Gc
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Mounting

Mounting type	DIN rail mounting
Mounting position	any (no temperature derating)

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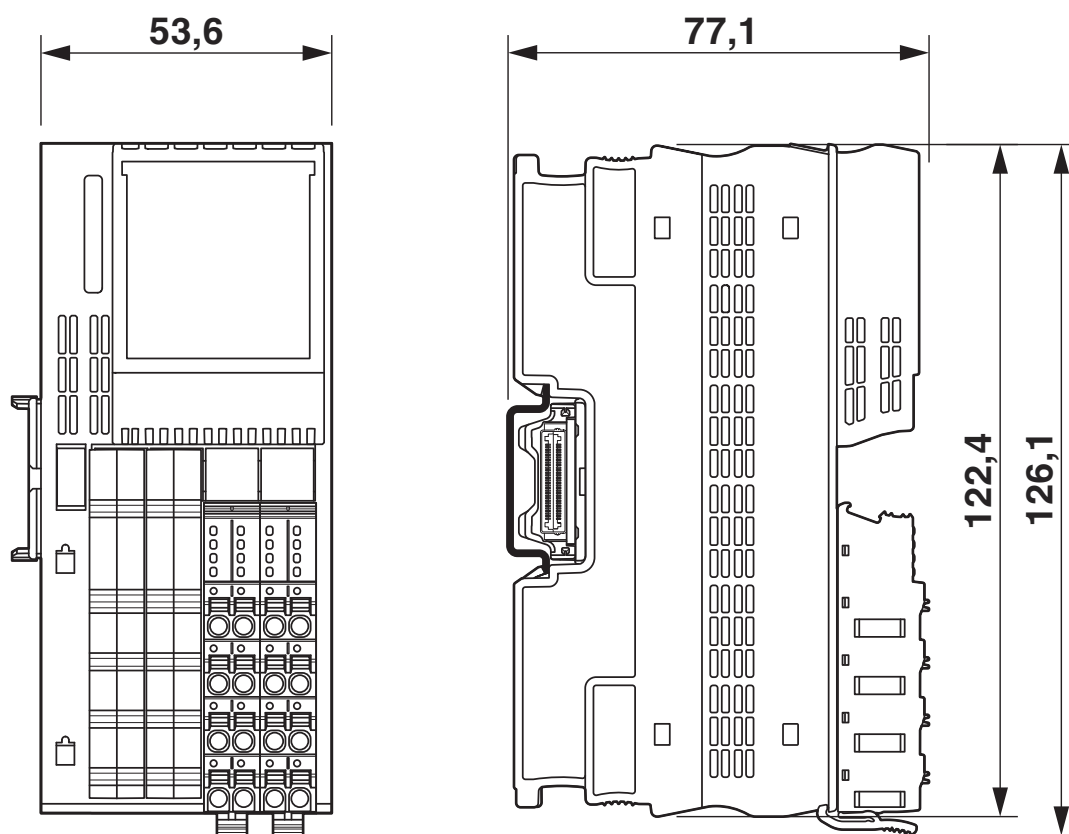


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Drawings

Dimensional drawing



Dimensional drawing

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1215392

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1215392>



UL Listed

Approval ID: File E238705



cUL Listed

Approval ID: E238705



IECEX

Approval ID: IECEX UL 20.0002X



cUL Listed

Approval ID: E196811



UL Listed

Approval ID: E196811



ATEX

Approval ID: DEMKO 20 ATEX 2334X

cULus Listed

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1215392

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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
China RoHS	
Environment friendly use period (EFUP)	EFUP-25
	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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1215392

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Accessories

AXL P BS F2 - Bus connector

1052428

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Axioline P bus base module for housing type F2

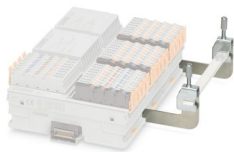


AXL SHIELD SET - Shield connection

2700518

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

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



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1215392

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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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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

info@phoenixcontact.co.in