

AXL P AO4 HART 1F - Analog module



1087079

<https://www.phoenixcontact.com/us/products/1087079>

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Axioline P, Analog output module, Analog outputs: 4 (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 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 module is fully hot-swappable and may be removed while under power. The module allows the connection of up to four HART devices. The analog output I/O module with HART capabilities manages analog output and HART data to and from the field I/O terminals and makes this information available to the bus coupler through the Axioline P local bus.

Your advantages

- 4 analog output-powered control signals for HART
- Current range: 4 mA ... 20 mA and 0 mA ... 20 mA
- Cyclic access to PV, SV, TV, QV, and Loop Current
- Temperature range: -40 °C ... +70 °C
- Hot-swappable

Commercial data

Item number	1087079
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR06
Product key	DRIP42
GTIN	4055626882468
Weight per piece (including packing)	353 g
Weight per piece (excluding packing)	353 g
Customs tariff number	85176200
Country of origin	US

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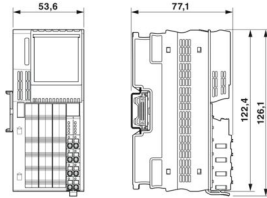


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Technical data

Dimensions

Dimensional drawing	
Width	53.6 mm
Height	126.1 mm
Depth	77.14 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
Utilization restriction	
CCCEX note	Use in potentially explosive areas is not permitted in China.

Material specifications

Color	traffic grey A RAL 7042
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Interfaces

Axioline P local bus	
Connection method	Bus base module
Transmission speed	100 Mbps

Output data

Analog:	
Output name	Analog outputs
Connection method	Push-in connection
Connection technology	2-conductor
Note regarding the connection technology	shielded, twisted pair
Number of outputs	4 (HART)
Current output signal	0 mA ... 20 mA 4 mA ... 20 mA

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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 connectors
Special properties	HART functionality

Data management status

Article revision	00
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Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

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. 160 mA (via bus base module)

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

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

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply of the local bus (U_{BUS}) / functional ground	500 V AC, 62 Hz, 1 min.
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 62 Hz, 1 min.
Test voltage: Field to functional earth	500 V AC, 62 Hz, 1 min.
Test voltage: Field to 5 V and 24 V supplies	1500 V AC, 62 Hz, 1 min.

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 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

Axioline P connector

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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

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C (Standard)
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

UKCA Ex (UKEX)

Identification	II 3G Ex ec IIC T4 Gc
Certificate	PxCAI22UKEx1052416X

Ex data

UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T4
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Mounting

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

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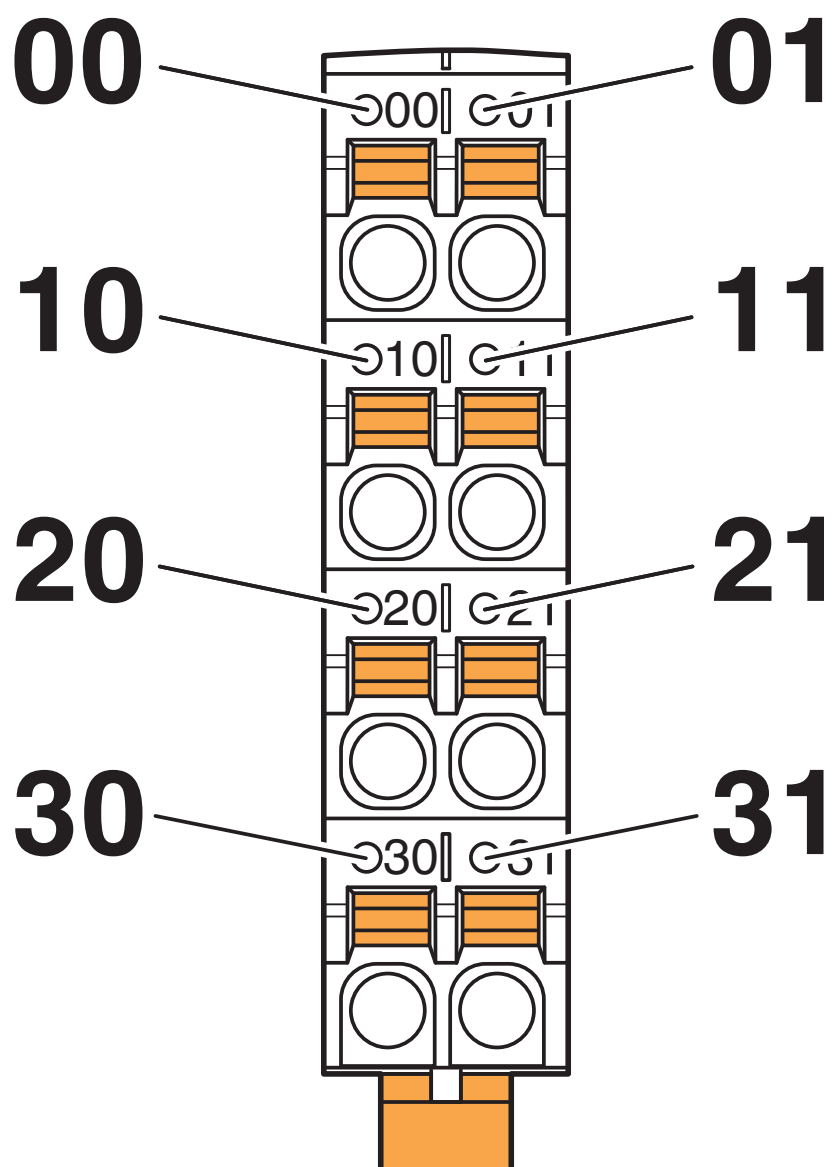
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Drawings

Connection diagram

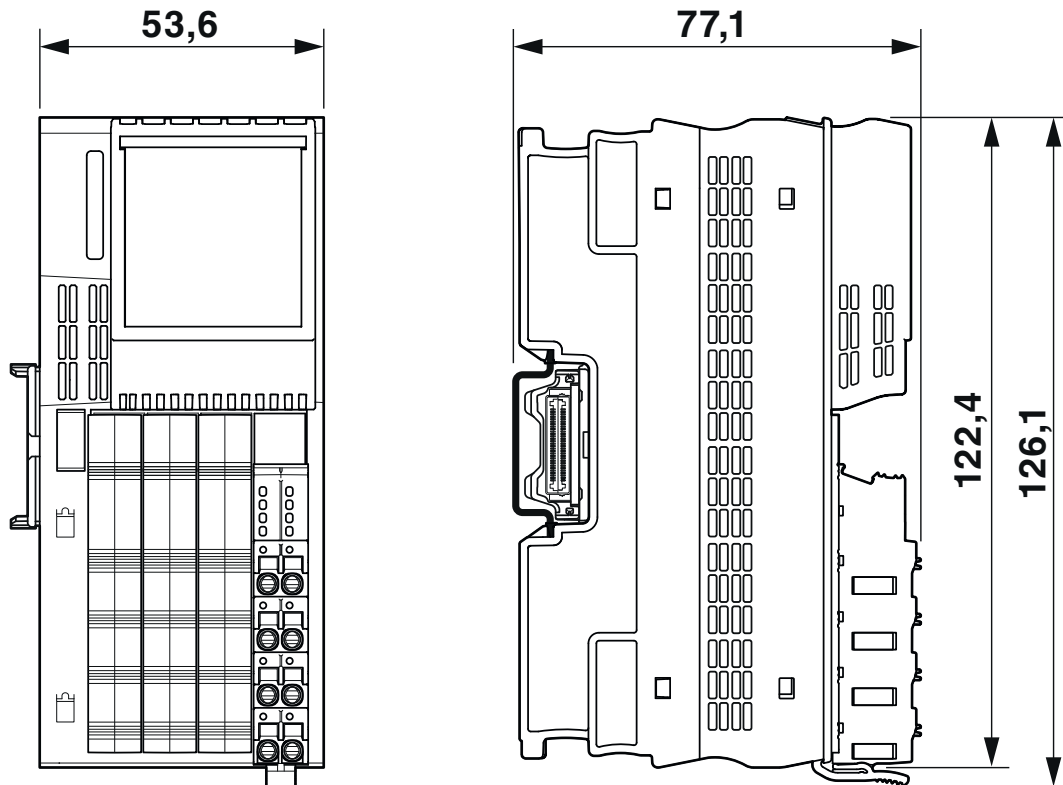


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Dimensional drawing



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Approvals

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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



CCC
Approval ID: 2021122309114878



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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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UNSPSC

UNSPSC 21.0	32151600
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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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Accessories

AXL P BS F2 - Bus connector

1052428

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Axioline P bus base module for housing type F2

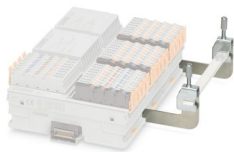


AXL SHIELD SET - Shield connection

2700518

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

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



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ZB 20,3 AXL UNPRINTED - Zack marker strip

0829579

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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

AXL P TERM PAIR - Terminal block

2316402

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Axioline P terminator pair

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AXL P TERM PAIR - Terminal block

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Axioline P terminator pair

AXL P BS F2 - Bus connector

1052428

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Axioline P bus base module for housing type F2

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