AXL X PN DI16 DO8 ADIO8 ENC - Digital module

1371410

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Axioline X remote I/O module, preassembled in a certified housing, for installation in zone 1. PROFINET communication with analog and digital inputs and outputs.

Product description

The module is a remote I/O that is installed in zone 1/21. It serves as the interface between the intrinsically safe signals in potentially explosive areas (zone 0/20 or zone 1/21) and the distributed control system (DCS) or the PLC in the safe area. The module is preinstalled in a housing that is fully certified in accordance with Directive 2014/34/EU, Regulation UK SI 2016 No. 1107, and the IECEx Scheme. The housing corresponds to equipment protection level Gb or Db and degree of protection IP65. Up to 32 input/output signals are combined in the remote I/O. The data is transmitted via PROFINET.

Your advantages

- Intrinsically safe input and output channels with connection to zone 1, zone 0, or division 1
- 16 digital NAMUR input channels for NAMUR proximity sensors in accordance with EN 60947-5-6
- 8 channels for digital output signals
- 8 configurable channels for input/output signals, can be selected as analog input or analog output (0 mA ... 20 mA), digital output (24 V DC), or switch mode
- Integrated web server
- Extended temperature range of -40 °C … +70 °C

Commercial data

Item number	1371410
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRIPAA
Product key	DRIPAA
GTIN	4063151728199
Weight per piece (including packing)	9,700 g
Weight per piece (excluding packing)	8,400 g
Country of origin	DE

Set consists of

AXL X PN DI16 DO8 ADIO8 - Digital module

1334854

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Axioline X remote I/O module for installation in zone 1. PROFINET communication with analog and digital inputs and outputs.

Technical data

Dimensions

Width	300 mm
Height	300 mm
Depth	121 mm

Notes

Note on application

Note on application	Only for industrial use

Mounting

Mounting type	DIN rail mounting

Material specifications

Color (Housing)	white aluminium (RAL 9006)

Interfaces

PROFINET

No. of channels	2
Connection method	Terminal block
Note on the connection method	Auto negotiation and autocrossing
Permissible conductor cross-section	max. 2.5 mm²
Transmission speed	100 Mbps (Full duplex)

Input data

Analog:

Input name	Analog inputs
Number of inputs	8
Connection method	Push-in connection
Connection technology	2-conductor
Note regarding the connection technology	shielded, twisted pair
Protective circuit	Polarity reversal protection of the inputs
Current input signal	0 mA ... 20 mA
Tolerance, relative	0.1 % (of upper range value for active mean value generation and 30 Hz filter)

Digital:

Input name	Digital inputs
Description of the input	NAMUR enabled digital input signals
Number of inputs	16 (NAMUR)
Connection method	Push-in connection
Connection technology	2-conductor

Nominal input voltage U_{IN}	8.2 V DC
Protective circuit	Polarity reversal protection of the inputs

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	8
Current output signal	0 mA ... 20 mA

Digital:

Output name	Digital output
Connection method	Push-in connection
Connection technology	2-conductor
Number of outputs	8
Protective circuit	Polarity reversal protection of the outputs
Output voltage	24 V

Product properties

Product type	I/O component
Product family	Axioline X
Special properties	NAMUR functionality
	intrinsically safe

Electrical properties

Maximum power dissipation for nominal condition	15 W

Supply: Module electronics

Designation	Supply of module electronics and sensors (U_S)
Number of positions	2
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC
Supply current	450 mA

Supply: Actuators

Designation	Supply of actuators (U_A)
Number of positions	2
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (The supply voltage at the most remote module must not fall short of 18 V DC. At a voltage below 18 V DC, the module shuts down.)

Connection data

Connection technology

Connection name	Power supply, Ethernet connection, I/O terminals

Power supply, Ethernet connection, I/O terminals

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

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 54 °C
Degree of protection	IP65
GRP_Temperature class	T4
Ambient temperature (storage/transport)	-40 °C ... 80 °C

Approvals

ATEX

Identification	II 2(1) G Ex eb mb [ia Ga] IIC T4 Gb II (1) D [Ex ia Da] IIIC
Certificate	EPS 22 ATEX 1 044 X

IECEx

Identification	Ex eb mb [ia Ga] IIC T4 Gb [Ex ia Da] IIIC
Certificate	IECEx EPS 22.0009X

UL data

Power consumption	15 W (max.)

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1371410

IECEx
Approval ID: IECEx PTB 07*0060X

ATEX
Approval ID: PTB 00 ATEX 1052 X

Classifications

ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

ETIM

ETIM 10.0	EC001599

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-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	edf8d834-9c08-4acb-ab6b-17e66424bf36

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