AXL X PN DI16 DO8 ADIO8 - Digital module

1334854

https://www.phoenixcontact.com/gb/products/1334854

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Axioline X remote I/O module 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. It is intended for installation in a certified housing that is certified in accordance with Directive 2014/34/EU, Regulation UK SI 2016 No. 1107, and the IECEx Scheme. The housing must correspond to equipment protection level Gb or Db and provide a degree of protection of at least IP54. Up to 32 input/output signals are combined in the remote I/O. The data is transmitted via PROFINET.

Your advantages

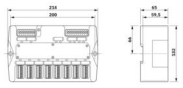
- Intrinsically safe input and output channels with connection to zone 1, zone 0, or division 1
- 16 digital NAMUR input channels for NAMUR proximity sensors in accordance with EN 60947-5-6
- 8 channels for digital output signals
- 8 configurable channels for input/output signals, can be selected as 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	1334854
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRIPAA
Product key	DRIPAA
GTIN	4063151633578
Weight per piece (including packing)	2,900 g
Weight per piece (excluding packing)	2,700 g
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	214 mm
Height	132 mm
Depth	65 mm
Note on dimensions	The depth applies when a TH 35 DIN rail is used.

Notes

Note on application

Note on application	Only for industrial use

Mounting

Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

Material specifications

Color (Housing)	white aluminium (RAL 9006)

Interfaces

Supported protocols	PROFINET
	LLDP
	MRP
	DCP

PROFINET

Number of interfaces	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 (configurable)
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)

Analog:

Input name	Analog inputs
Description of the input	For monitoring an externally connected switch
Number of inputs	8 (Switch mode, configurable)
Connection method	Push-in connection
Connection technology	2-conductor
Current input signal	4 mA

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 (configurable)
Current output signal	0 mA ... 20 mA

Digital:

Output name	Digital outputs
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 DC
Output current	25 mA

Product properties

Product type	I/O component
Product family	Axioline X
Mounting position	Horizontal DIN rail
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)
Permissible conductor cross-section	max. 2.5 mm²
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)
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 ... 70 °C
Degree of protection	IP20 (IEC 60529)
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

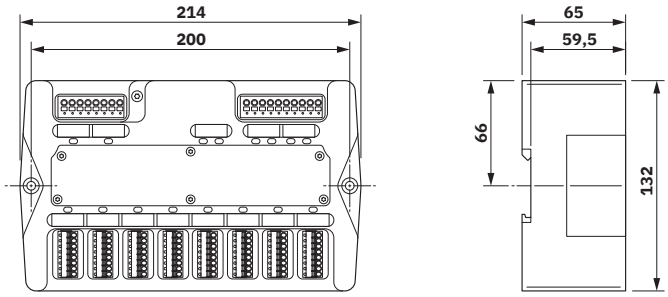
Identification	Ex eb mb [ia Ga] IIC T4 Gb [Ex ia Da] IIIC
Certificate	IECEx EPS 22.0009X

UL data

Power consumption	15 W (max.)

Drawings

Dimensional drawing



Dimensions

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1334854

ATEX
Approval ID: EPS 22 ATEX 1 044 X

IECEx
Approval ID: IECEx EPS 22.0009X

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)

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk