

AXL P BK PN - Bus coupler

1132800

<https://www.phoenixcontact.com/in/products/1132800>



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Axioline P, Bus coupler, PROFINET, RJ45 jack, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and connectors

Product description

The bus coupler is intended for use within a PROFINET network. The bus coupler creates the link to the Axioline P I/O system and the industrial I/O signals connected to it. Up to 63 Axioline P I/O modules can be connected to the bus coupler.

Your advantages

- 2 Ethernet ports (with integrated switch)
- PROFINET RT
- Supports S2 system redundancy
- Web-based management
- Hot-swappable
- Firmware can be updated through Web-based manager
- High temperature operating range

Commercial data

Item number	1132800
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI
Product key	DRIP1A
GTIN	4063151062903
Weight per piece (including packing)	321.7 g
Weight per piece (excluding packing)	321.7 g
Customs tariff number	85176200
Country of origin	US

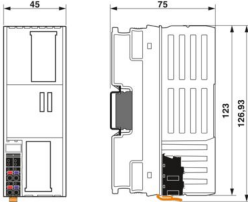
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Technical data

Dimensions

Dimensional drawing	
Width	45 mm
Height	126.93 mm
Depth	75 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.

Interfaces

PROFINET	
Number of interfaces	2
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	100 Mbps (full duplex)
Transmission physics	Ethernet in RJ45 twisted pair
Axioline P local bus	
Number of interfaces	1
Connection method	Bus base module
Transmission speed	100 Mbps

System properties

System limits	
Number of supported devices	max. 63 (per station)

PROFINET	
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Device function	PROFINET device
Specification	Version 2.3
Conformance Class	Conformance-Class C
Device ID	0172 _{hex}
Vendor ID	00B0 _{hex}

Product properties

Product type	I/O component
Product family	Axioline P
Type	block modular
Mounting position	any
Scope of delivery	including bus base module and connectors

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	5 W
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Potentials: Supply of the bus coupler (U_L)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 4.15 A (19.2 V DC)
	max. 3 A (via bus base module)
	125 mA (24 V DC)
Protective circuit	Surge protection; electronic
	Reverse polarity protection; electronic

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

Supply voltage	5 V DC (via bus base module)
Power supply unit	max. 3 A
Current draw	3 A (via bus base module)

Electrical isolation/isolation of the voltage ranges

Test voltage: PROFINET interface 1 / PROFINET interface 2	1500 V AC, 50 Hz, 1 min
Test voltage: PROFINET interface 1 / 24 V communications voltage (U _L) feed-in	1500 V AC, 50 Hz, 1 min
Test voltage: PROFINET interface 1 / functional ground	1500 V AC, 50 Hz, 1 min
Test voltage: PROFINET interface 2 / 24 V communications voltage (U _L) feed-in	1500 V AC, 50 Hz, 1 min
Test voltage: PROFINET interface 2 / functional ground	1500 V AC, 50 Hz, 1 min
Test voltage: 24 V communications voltage (U _L) feed-in / functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection technology

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Connection name	Power supply
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

Power supply

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 (Mounting position: panel mounting on horizontal DIN rail)
	-40 °C ... 50 °C (Mounting position: any)
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	Ex II 3 G Ex ec IIC T4 Gc
Certificate	IBExU 18ATEXB018 X

IECEX

Identification	Ex ec IIC T4 Gc
Certificate	IECEX IBE 18.0023X

UKCA Ex (UKEX)

Identification	II 3G Ex ec IIC T4 Gc X
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Certificate	PxCAI22UKEx2316390X
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Ex data

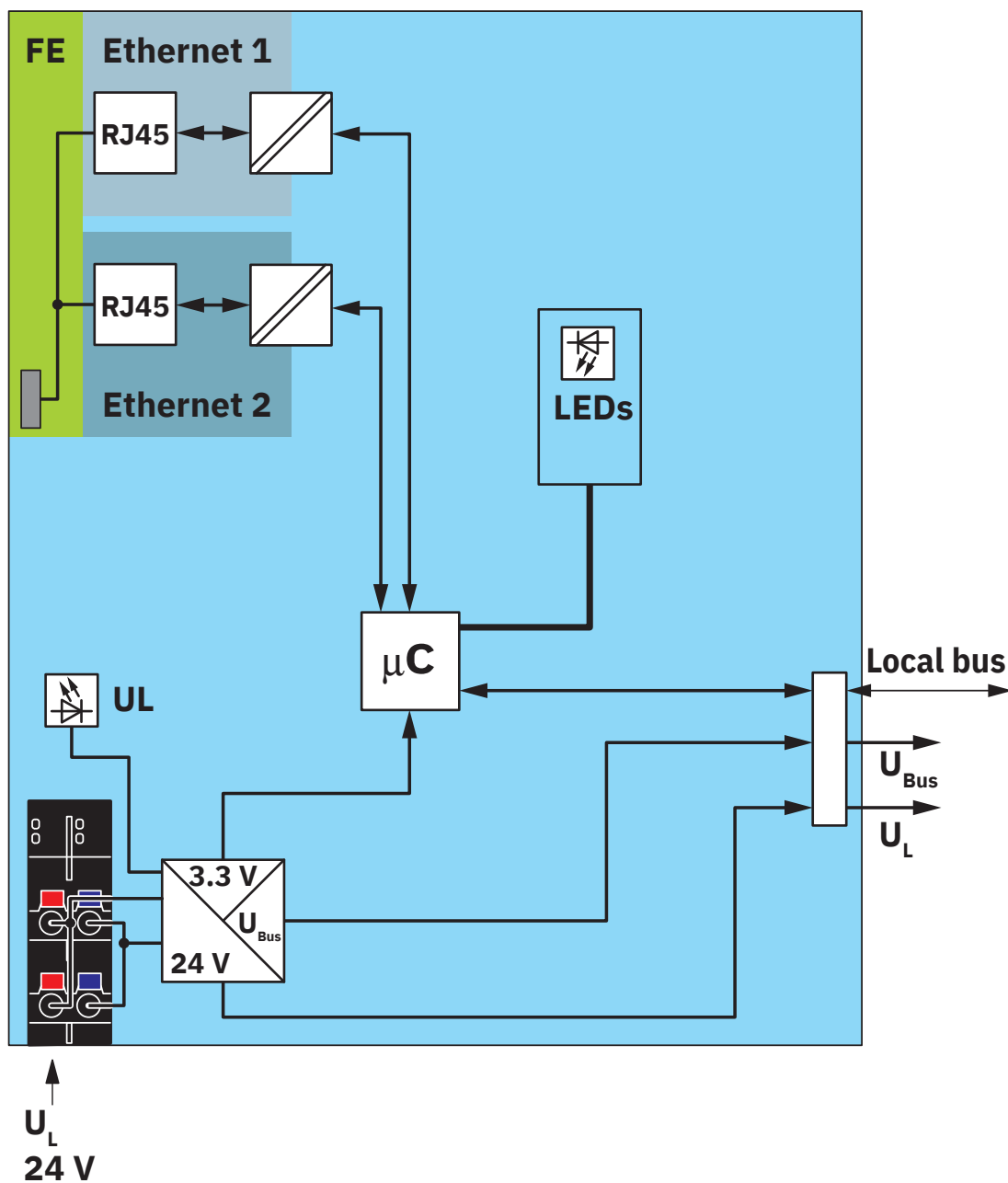
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T4 Class I, Zone 2, IIC T4
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Mounting

Mounting type	DIN rail mounting
Mounting position	any

Drawings

Block diagram



Internal wiring of the terminal points

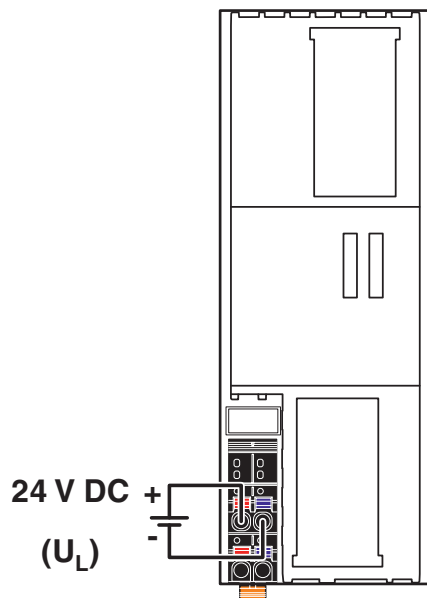
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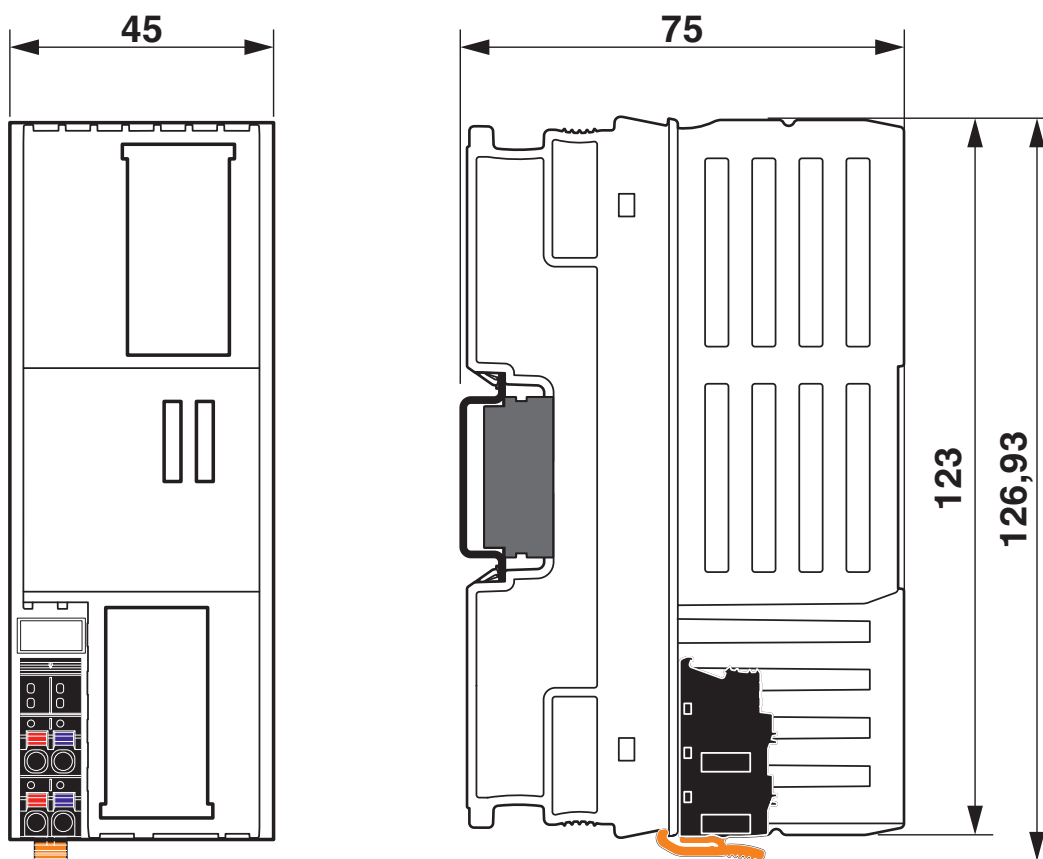
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Connection diagram



Dimensional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1132800>



UL Listed

Approval ID: File E238705



cUL Listed

Approval ID: E238705



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UL Listed

Approval ID: File E238705



IECEx

Approval ID: IECEx IBE 18.0023X



cUL Listed

Approval ID: E196811



UL Listed

Approval ID: E196811



ATEX

Approval ID: IBExU 18 ATEX B018 X



CCC

Approval ID: 2021122310114877



UL Listed

Approval ID: E196811



cUL Listed

Approval ID: E196811

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Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

ETIM 9.0	EC001604
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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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Mandatory accessories

AXL P TERM PAIR - Terminal block

2316402

<https://www.phoenixcontact.com/in/products/2316402>



Axioline P terminator pair

Accessories

AXL P BS G1 - Bus connector

1052430

<https://www.phoenixcontact.com/in/products/1052430>



Axioline P bus base module for housing type G1

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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