AXL P BK PN AF - Bus coupler

2316390

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Axioline P, Bus coupler, PROFINET, RJ45 socket, auto negotiation and auto crossing, 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 PROFIBUS PA segments and the PROFIBUS PA signals connected to them. Up to eight redundant Axioline P PROFIBUS PA segments can be connected to the bus coupler.

Your advantages

- 2 Ethernet ports (with integrated switch)
- PROFINET RT
- Supports S2 system redundancy
- Supports eight redundant PROFIBUS PA segments with up to 256 PROFIBUS PA instruments
- Hot-swappable
- Firmware can be updated
- High temperature operating range

ELEKTROGERÄTE RÜCKNAHME

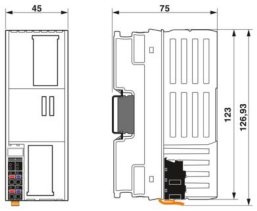
Commercial data

Item number	2316390
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR06
Product key	DRIP1A
GTIN	4055626368382

Weight per piece (including packing)	321 g
Weight per piece (excluding packing)	259 g
Customs tariff number	85176200
Country of origin	US

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.

Mounting

Mounting type	DIN rail mounting
Mounting position	any

Material specifications

Color (Housing)	gray (RAL 7042)

Interfaces

Supported protocols	PROFINET
	LLDP
	SNMP
	MRP
	DCP

Axioline P local bus

Number of interfaces	1
Connection method	Bus base module
Transmission speed	100 Mbps

PROFINET

Number of interfaces	2
No. of channels	2
Connection method	RJ45 socket, auto negotiation and auto crossing
Transmission speed	100 Mbps (Full duplex)
Transmission physics	Ethernet in RJ45 twisted pair

Fieldbus: Local bus gateway

Max. number of local bus devices	63 (Redundant PROFIBUS PA segments and AXL P I/O modules. Consider the logic current consumed by the devices.)

System properties

System limits

Number of supported devices	max. 8 (per redundant PROFIBUS PA segments)
	max. 63 (per station)

PROFINET

Device function	PROFINET device
Specification	Version 2.3
Conformance Class	Conformance Class C
Device ID	0148_{hex}
Vendor ID	$00B0_{hex}$

Product properties

Product type	I/O component
Product family	Axioline P
Type	block modular
Mounting position	any
Scope of supply	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

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	2 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

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.

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)

Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	2g

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	15g
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Approvals

ATEX

Identification	Ⓔx 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)

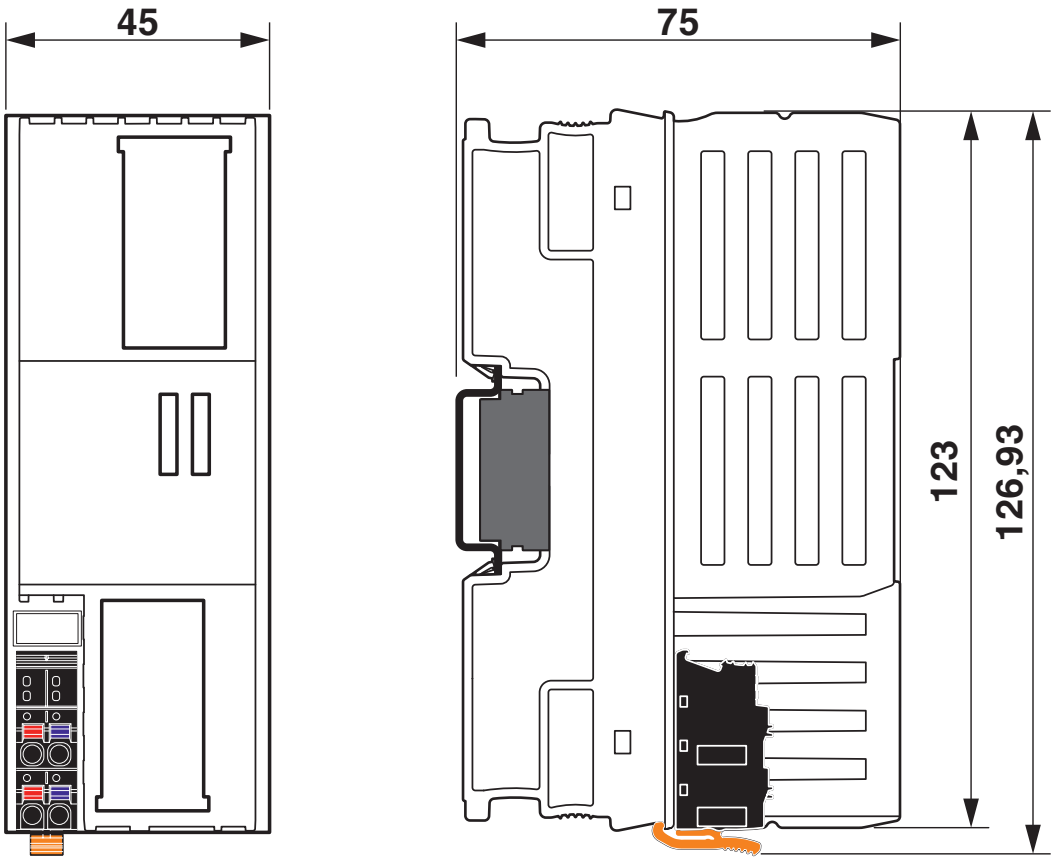
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Certificate	PxCAI22UKEx2316390X

Ex data

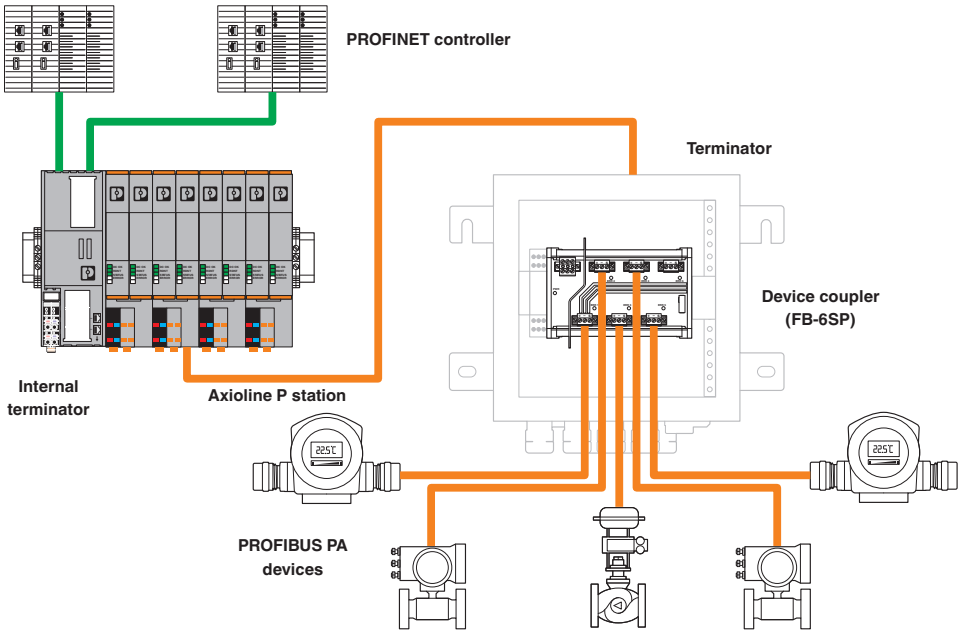
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T4 Class I, Zone 2, IIC T4

Drawings

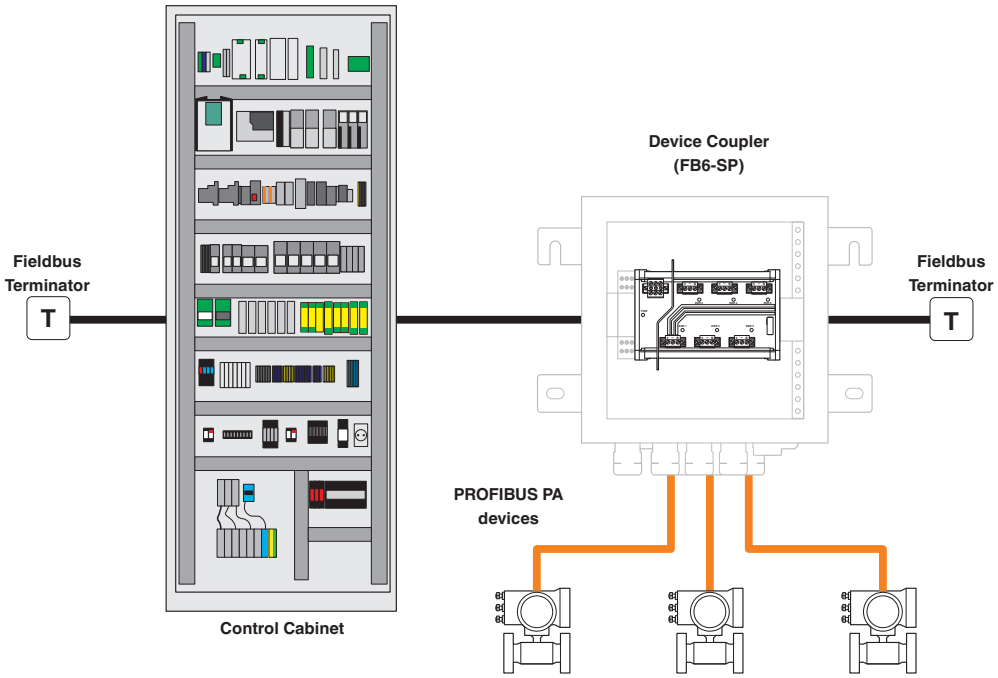
Dimensional drawing



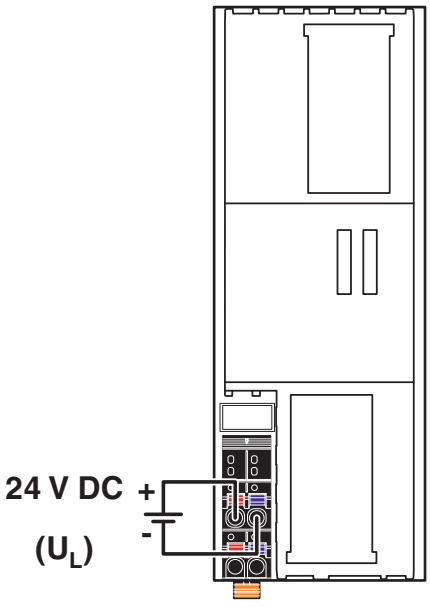
Application drawing



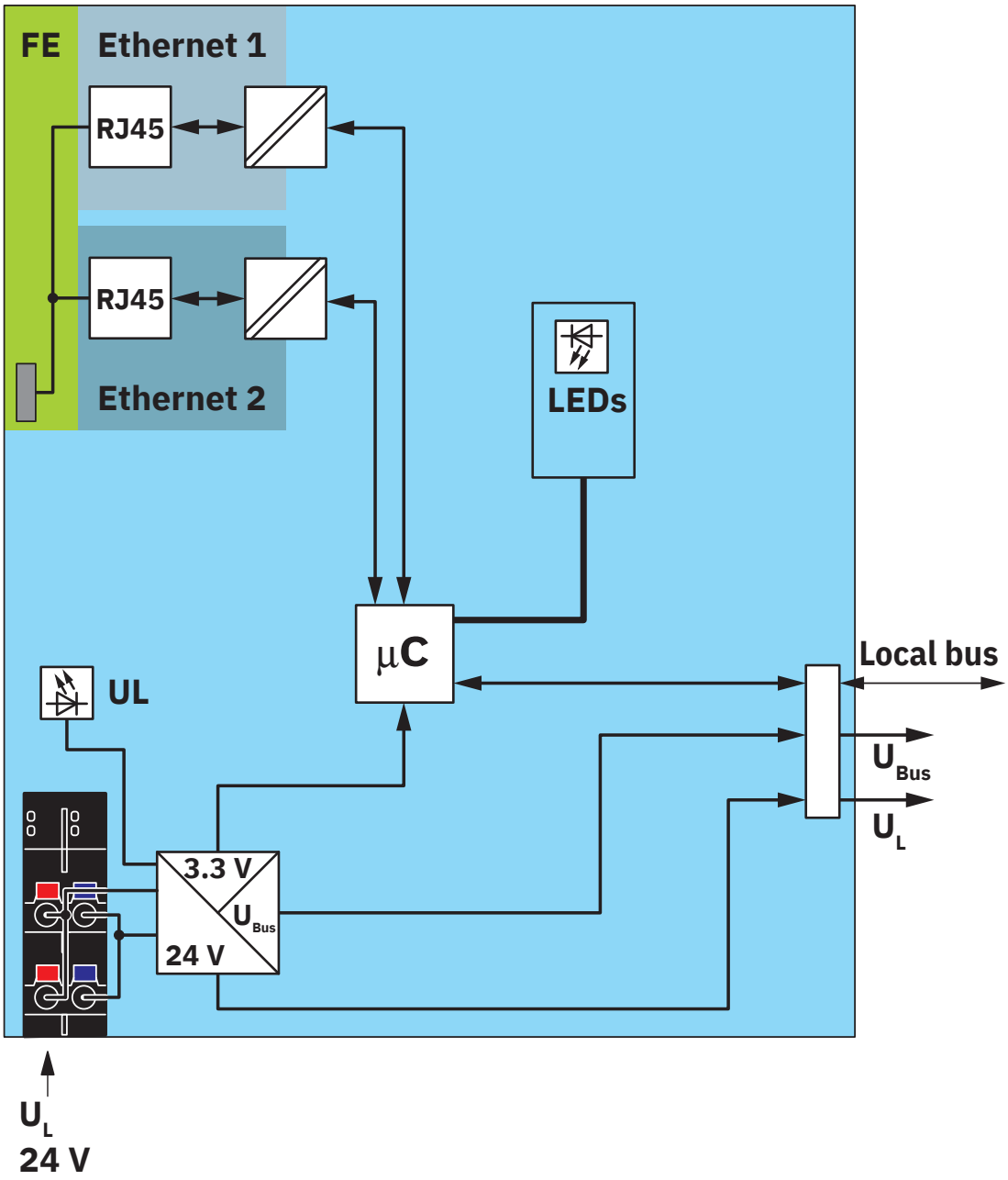
Application drawing



Connection diagram



Block diagram



Internal wiring of the terminal points

Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

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)
	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	0ed5392b-61dc-4898-8cab-de1bf8266d85

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