

https://www.phoenixcontact.com/us/products/2400165



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Axioline F, Bus coupler, PROFINET, SC-RJ socket, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connector

Product description

The bus coupler is intended for use within a PROFINET network. The bus coupler creates the link to the Axioline F I/O system and the industrial I/O signals connected to it. Up to 63 Axioline F devices can be connected to the bus coupler. Device descriptions for Phoenix Contact controllers are integral parts of the engineering tools PC Worx and PLCnext Engineer. Corresponding GSDML files are available for integrating the Axioline F station into other programming systems. These files can be downloaded at: phoenixcontact.net/product/2400165.

Your advantages

- 2 x fiber optic connection according to SC-RJ standard for polymer and HCS (PCF) fibers
- · Supports PROFIsafe
- · Supports PROFlenergy
- PROFINET RT and IRT
- Minimum cycle time of PROFINET for RT and IRT is 250 μs
- · Firmware can be updated
- Runtime in bus coupler is negligible (almost 0 µs)
- Typical cycle time of the Axioline F local bus is around 10 µs
- · Web-based management
- · Safe analog value processing with SAFE AI and other components

Commercial data

Item number	2400165
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR14
Product key	DRI21A
GTIN	4055626048000
Weight per piece (including packing)	227.6 g
Weight per piece (excluding packing)	144 g
Customs tariff number	85389091
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	74 75 76 76 78 78 78 78 78 78 78 78 78 78
Width	45 mm
Height	126.1 mm
Depth	74 mm
Note on dimensions	The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).

Interfaces

птепасеѕ	
Supported protocols	PROFINET
	TFTP
	PTCP
	LLDP
	SNMP
	MRP
	DCP
	DDI
	BootP (BootP only to perform firmware updates)
PROFINET	
Number of interfaces	2
Connection method	SC-RJ socket
Transmission speed	100 Mbps (acc. to PROFINET standard)

Wavelength Axioline F local bus

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

660 nm

Service

Number of interfaces	1
Connection method	Micro USB type B

System properties

Number of supported devices	max. 63 (per station)

Number of local bus devices that can be connected



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Connection name

Conductor connection

Connection method

Stripping length

Axioline F connector

Connection method

Note on the connection method

Conductor cross-section rigid

Conductor cross-section flexible Conductor cross-section AWG



PROFINET device
Conformance Class C
1002 _{hex}
00B0 _{hex}
I/O component
Axioline F
block modular
any
including bus base module and Axioline F connector
II (IEC 60664-1, EN 60664-1)
2 (IEC 60664-1, EN 60664-1)
ne F local bus U _{Bus} is generated from U _L)
24 V DC
19.2 V DC 30 V DC (including all tolerances, including ripple)
max. 610 mA (with 2 A at U_{Bus} for the I/Os and U_{L} = 24 V)
Surge protection; electronic
Reverse polarity protection; electronic
5 V DC (via bus base module)
max. 2 A

Axioline F connector

Push-in connection

0.2 mm² ... 1.5 mm² 0.2 mm² ... 1.5 mm²

Push-in connection

24 ... 16

8 mm

Please observe the information provided on conductor crosssections in the "Axioline F: system and installation" user manual.

max. 63



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Note on the connection method	Please observe the information provided on conductor cross- sections in the "Axioline F: 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)	-25 °C 60 °C (Mounting position: panel mounting on horizontal DIN rail)
	-25 °C 55 °C (Mounting position: any)
Degree of protection	IP20
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 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	II (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	DIN rail mounting
	DIN rail mounting
Mounting position	any

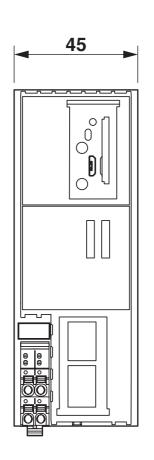


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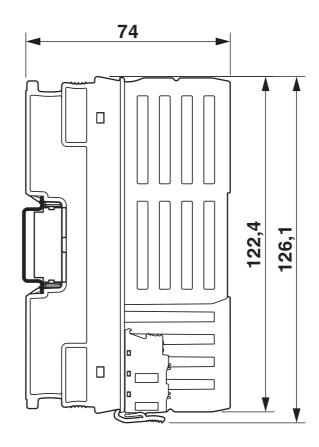


Drawings

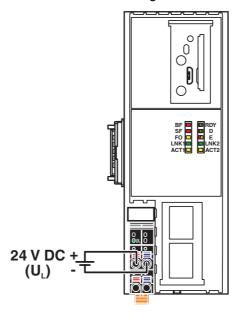




Dimensional drawing



Connection diagram



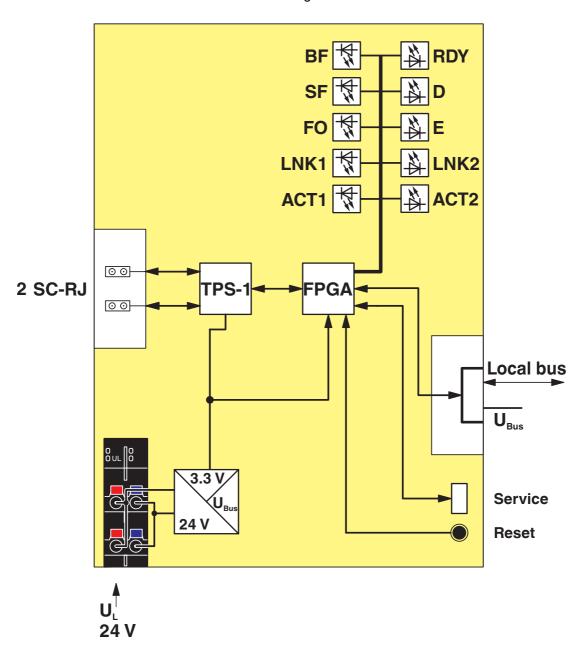
Connection of the cables

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Block diagram



Internal wiring of the terminal points



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Classifications

ECLASS

ECLASS-13.0 27242608



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Environmental product compliance

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.)	No substance above 0.1 wt%

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