

https://www.phoenixcontact.com/us/products/2688530



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Axioline F, Bus coupler, PROFIBUS DP, D-SUB-9 female connector, 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 PROFIBUS network and represents the link to the Axioline F I/O system. Up to 63 Axioline F devices can be connected to the bus coupler. A corresponding GSD file is available for integrating the Axioline F station into the programming system. It can be downloaded at: phoenixcontact.net/product/2688530

Your advantages

- · PROFIBUS connection via 9-pos. D-SUB socket
- Electrical isolation between PROFIBUS interface and logic
- · Rotary coding switches for setting the PROFIBUS address
- DP/V1 for class 1 and class 2 masters
- PROFIBUS data transmission speed of 9.6 kbps to 12 Mbps
- · Dynamic configuration is supported
- I&M functions
- · Firmware can be updated
- Typical cycle time of the Axioline F local bus is around 10 µs
- · Supports the operation of Axioline Smart Elements
- Supports passive Smart Elements (firmware version 2.20 or later)

Commercial data

Item number	2688530
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR02
Product key	DRI212
Catalog page	Page 72 (C-6-2019)
GTIN	4046356712903
Weight per piece (including packing)	221.9 g
Weight per piece (excluding packing)	175 g
Customs tariff number	85176200
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	74 1921
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

PROFIBUS DP

Number of interfaces	1
Connection method	D-SUB-9 female connector
Transmission speed	9.6 kbps 12 Mbps

Axioline F local bus

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

Service

Number of interfaces	1
Connection method	Micro USB type B

Fieldbus: Local bus gateway

System properties

System limits

Number of supported devices	max. 63 (per station)
Number of local bus devices that can be connected	max. 63

Product properties

Product type	I/O component
Product family	Axioline F
Туре	block modular
Mounting position	any (observe temperature derating)



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Scope of delivery	including bus base module and Axioline F connector
Insulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Potentials: Communications power U_L feed-in (the supply of the Axioline F local bus U_{Bus} is generated from U_L)

, , , , , , , ,	Bus 5
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current draw	max. 567 mA (with 2 A at U_{Bus} for the I/Os and U_{L} = 24 V)
Power consumption	max. 13.7 W (2.0 A on U _{Bus} , U _L = 24 V)
Protective circuit	Surge protection; electronic
	Reverse polarity protection; electronic
Potentials: Axioline F local bus supply (U _{Bus})	
Supply voltage	5 V DC (via bus base module)
Power supply unit	2 A
Electrical isolation/isolation of the voltage ranges	

Test voltage: PROFIBUS interface / 24 V communications voltage (U_L) feed-in	500 V AC, 50 Hz, 1 min.
Test voltage: PROFIBUS interface / functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V communications voltage ($\mathrm{U_L}$) feed-in / functional ground	500 V AC, 50 Hz, 1 min.

Connection data

Connection technology Connection name

Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline F: 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

Axioline F connector

Axioline F connector

Connection method	Push-in connection
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



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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C (Mounting position: wall 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	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	DIN rail mounting
Mounting position	any (observe temperature derating)

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