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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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

Туре	block modular
Product type	I/O component
Product family	Axioline F
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)

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 ($\mathrm{U_L}$) 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 (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

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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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Classifications

UNSPSC 21.0

ECLASS

E	ECLASS-11.0	27242608
	ECLASS-12.0	27242608
Е	ECLASS-13.0	27242608
ETIM	1	
E	ETIM 9.0	EC001604
UNSI	PSC	

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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