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
item number	2000330
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR02
Product key	DRI212
GTIN	4046356712903
Weight per piece (including packing)	211.9 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).

Notes

Note on application

Note on application	Only for industrial use
Note on application	Only for industrial use

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

Max. number of local bus devices	63 (Consider the logic current consumed by the devices)

System properties

System limits

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

Product properties



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	I/O component
Product type	"O component
Product family	Axioline F
Туре	block modular
Mounting position	any (observe temperature derating)
Scope of supply	including bus base module and Axioline F connector
nsulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)
ectrical properties	
Maximum power dissipation for nominal condition	4 W
Potentials: Communications power U_L feed-in (the supply of the Axi	ioline F local bus II. is generated from II.)
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Supply voltage range Current draw	19.2 V DC 30 V DC (including all tolerances, including ripple) max. 567 mA (with 2 A at U _{Bus} for the I/Os and U _L = 24 V)
Current draw	max. 567 mA (with 2 A at U_{Bus} for the I/Os and U_{L} = 24 V)
Current draw Protective circuit	max. 567 mA (with 2 A at U_{Bus} for the I/Os and U_{L} = 24 V) Surge protection; electronic
Current draw	max. 567 mA (with 2 A at U_{Bus} for the I/Os and U_{L} = 24 V) Surge protection; electronic
Current draw Protective circuit Potentials: Axioline F local bus supply (U _{Bus})	Surge protection; electronic Reverse polarity protection; electronic
Current draw Protective circuit Potentials: Axioline F local bus supply (U _{Bus}) Supply voltage	max. 567 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)
Current draw Protective circuit Potentials: Axioline F local bus supply (U _{Bus}) Supply voltage Power supply unit	max. 567 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)
Current draw Protective circuit Potentials: Axioline F local bus supply (U _{Bus}) Supply voltage Power supply unit Electrical isolation/isolation of the voltage ranges Test voltage: PROFIBUS interface / 24 V communications	max. 567 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) 2 A

С

Connection technology

Connection name	Axioline F connector
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

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.



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Conductor cross-section, rigid	0.2 mm ² 1.5 mm ²
Conductor cross-section, flexible	0.2 mm ² 1.5 mm ²
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	III (IEC 61140, EN 61140, VDE 0140-1)
1 Totodion oldoc	III (120 01110, 214 01110, VB2 0110 1)

Mounting

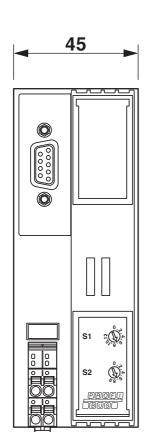
Mounting type	DIN rail mounting
Mounting position	any (observe temperature derating)

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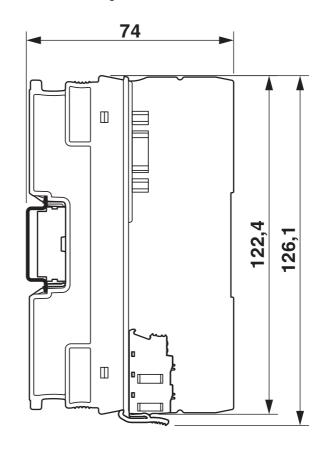
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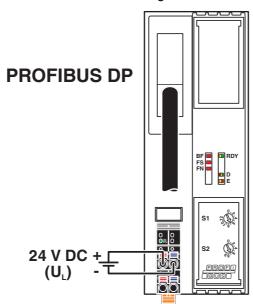
Drawings



Dimensional drawing



Connection diagram

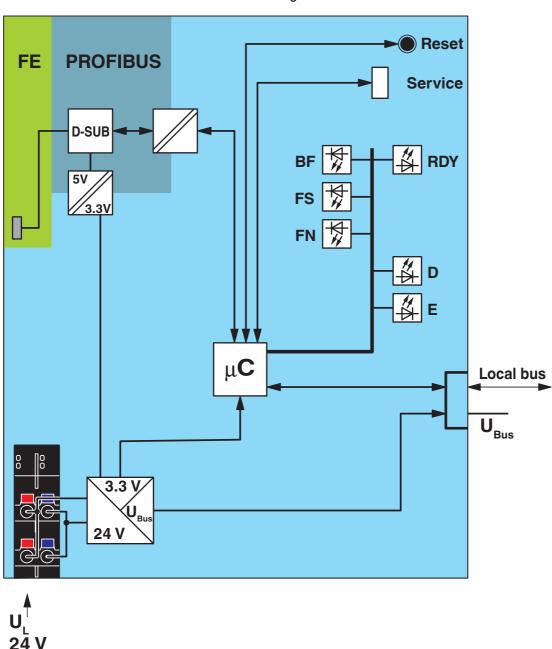


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Block diagram



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Internal wiring of the terminal points



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2688530



DNV GL

Approval ID: TAA00000DF



LR

Approval ID: LR2480202TA-02



PRS

Approval ID: TE/1020/880590/21

BSH

Approval ID: 840



RINA

Approval ID: ELE008423XG001

ABS

Approval ID: 23-2449604-PDA

PROFIBUS

Approval ID: Z02073



cULus Listed

Approval ID: E238705



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27242608	
	ECLASS-15.0	27242608	
ETIM			
	ETIM 9.0	EC001604	
UN	ISPSC		

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I
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.)	Lead(CAS: 7439-92-1)
SCIP	bb160636-c916-4310-a833-0a42025f00a0

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