2688459

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Axioline F, Bus coupler, Modbus/TCP(UDP), RJ45 jack, 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 Modbus/TCP (UDP) 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.

Your advantages

- 2 Ethernet ports (with integrated switch)
- · Transmission speed of 10 Mbps and 100 Mbps
- · Rotary coding switches for setting the IP address assignment and other functions
- · Firmware can be updated
- Runtime in the bus coupler is negligible (almost 0 µs) (for Modbus/UDP)
- Typical cycle time of the Axioline F local bus is around 10 μs
- · Web-based management
- · Security in the network: Port disconnection possible via web-based management (firmware version 1.31 or later)
- · Supports the operation of Axioline Smart Elements
- · Supports passive Smart Elements (firmware version 1.30 or later)
- Supports IOL-CONF (firmware version 1.30 and later)
- · Supports Diag+

Commercial Data

Item number	2688459
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRI
Product Key	DRI21B
Catalog Page	Page 71 (C-6-2019)
GTIN	4046356710770
Weight per Piece (including packing)	221.7 g
Weight per Piece (excluding packing)	177 g
Customs tariff number	85176200
Country of origin	DE



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Technical Data

Dimensions

Dimensional drawing	74 FZZ.
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).

Material specifications

Interfaces

Modbus/TCP (UDP)

Number of interfaces	2
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps (Half or full duplex mode (automatic detection, can be adjusted manually))
Transmission physics	Ethernet in RJ45 twisted pair

Axioline F local bus

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

Service

Number of interfaces	1
Connection method	USB type C (from HW 05)
	Micro USB type B (up to HW 04)

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



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Current draw max. 583 mA (2.0 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bus} , U _L = 24 V, HW 05 or later) Power consumption max. 14 W (2.0 A at U _{Bus} , U _L = 24 V, HW 05 or later) max. 14 W (2.0 A at U _{Bus} , U _L = 24 V, HW 05 or later) Protective circuit Surge protection; electronic Reverse polarity protection; electronic Potentials: Axioline F local bus supply (U _{Bus}) Supply voltage Power supply unit max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Connection data Connection technology Connection name Axioline F connector Note on the connection method Please observe the information provided on conductor cross section method Conductor cross section rigid Conductor cross section flexible Conductor Connection Push-in connection Conductor cross section flexible O.2 mm² 1.5 mm² Conductor cross section flexible O.2 min² 1.5 mm² Conductor cross section flexible O.3 min² 1.5 mm² Conductor cross section flexible O.4 min² 1.5 mm² Conductor cross section flexible O.5 min² 1.5 mm² Conductor cross section flexible O.6 min² 1.5 mm² Conductor cross section flexible O.7 min² 1.5 mm² Conductor cross section flexible O.8 min² 1.5 mm² Conductor cross section flexible O.9 min² 1.5 mm² Conductor cross section flexible O.		
Product family Axioline F Mounting position any (observe temperature derating) Scope of delivery including bus base module and Axioline F connector Insulation characteristics Vervoltage category II (IEC 60664-1, EN 60664-1) Pollution degree 2 (IEC 60664-1, EN 60664-1) Reakinum power dissignation for nominal condition 14 W Potentials: Communications power U, feed-in (the supply of the Axioline F local bus U _{Bus} is generated from U,) Supply voltage range 24 V DC Supply voltage range 19,2 V DC 30 V DC (including all tolerances, including ripple Current draw 25.3 m A (2.9 A at U _{Bus} , U, = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bus} , U, = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bus} , U, = 24 V, HW 05 or later) Power consumption 25.4 m A V (2.5 A at U _{Bus} , U, = 24 V, HW 05 or later) Protective circuit 35.4 m A V (2.5 A at U _{Bus} , U, = 24 V, HW 05 or later) Protective circuit 45.4 m A V (2.5 A at U _{Bus} , U, = 24 V, HW 05 or later) Power supply voltage 5 V DC (via bus base module) Power supply unit 26.4 m A V (2.5 A at U _{Bus} , U, = 24 V, HW 05 or later) Supply voltage 5 V DC (via bus base module) max. 2.5 A (from HW 05) Innection data 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 manus Conductor cross section field 0.2 mm² 1.5 mm² Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section AWG 44 16 Stripping length 8 mm Axioline F connector Connection method Push-in connection Note on the connection method Push-in connection Note on the connection method Push-in connection Note on the connection and Push-in connection Note on the connection method Push-in connection Note on the connection method Push-in connection Conductor cross section, rigid 0.2 m m² 1.5 m m² Axioline F connector Connection method Push-in connection Note on the connection method Push-in connection Note on the connection an	Туре	block modular
Mounting position any (observe temperature derating) 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) ectrical properties Maximum power dissipation for nominal condition 14 W Potentials: Communications power U _L feed-in (the supply of the Axioline F local bus U _{Bax} is generated from U _L) Supply voltage 24 V DC Supply voltage 19.2 V DC 30 V DC (including all tolerances, including ripple umax. 658 mA (2.0 A at U _{Bay} U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bay} U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bay} U _L = 24 V, HW 05 or later) Power consumption 2 max. 14 W (2.5 A at U _{Bay} U _L = 24 V, HW 05 or later) Protective circuit 2 Surge protection; electronic Reverse polarity protection; electronic Potentials: Axioline F local bus supply (U _{Bay}) Supply voltage 5 V DC (via bus base module) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Dennection data Connection data Connection technology Connection technology Connection method Push-in connection Conductor consection Conductor consection flexible 0.2 mm² 1.5 mm² Conductor cross section nigld 0.2 mm² 1.5 mm² Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section AWG 4 16 Stripping length 8 mm Axioline F connector Connection method Push-in connection Note on the connector the information provided on conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section AWG 4 16 Stripping length 8 mm Axioline F connector Connection method Push-in connection Note on the connector the information provided on conductor cross sections in the connection decided on conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section AWG 4 16 Stripping length 8 mm	Product type	I/O component
Insulation characteristics Overvoltage category Il (IEC 60664-1, EN 60664-1) Pollution degree 2 (IEC 60664-1, EN 60664-1) Maximum power dissipation for nominal condition 14 W Potentials: Communications power U _L feed-in (the supply of the Axioline F local bus U _{But} is generated from U _L) Supply voltage ange 19 2 V DC 30 V DC (including all tolerances, including ripple Current draw 19 2 V DC 30 V DC (including all tolerances, including ripple Current draw 20 4 V DC 30 V DC (including all tolerances, including ripple Current draw 21 4 V DC 30 V DC (including all tolerances, including ripple Current draw 22 4 V DC 30 V DC (including all tolerances, including ripple Current draw 23 4 V DC 30 V DC (including all tolerances, including ripple Current draw 24 V DC 30 V DC (including all tolerances, including ripple Current draw 25 4 V U _{But} U _L = 24 V, up to HW 04) max 16 W (2.5 A at U _{But} U _L = 24 V, up to HW 04) max 16 W (2.5 A at U _{But} U _L = 24 V, HW 05 or later) Reverse polantly protection: electronic Potentials: Axioline F local bus supply (U _{But}) Supply voltage 5 V DC (via bus base module) max 2.5 A (from HW 05) Connection data Connection technology Connection technology Connection mame Axioline F connector Note on the connection method Push-in connection Conductor cross section method Push-in connection Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section flexible Connection method Push-in connection Note on the connection method Push-in connection Connection method Push-in connection Connection method Push-in connection Push-in connection Connection flexible Conductor cross section flexible Connection method Push-in connection Connection flexible Connection flexible Connection flexible Connection flexible Connection flexible Connection flexible Connection	Product family	Axioline F
Insulation characteristics Overvoltage category Pollution degree 2 (IEC 60664-1, EN 60664-1) ectrical properties Maximum power dissipation for nominal condition 14 W 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 24 V DC Supply voltage 24 V DC Supply voltage 39 V DC (including all tolerances, including ripple max. 583 mA (2.0 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 16 W (2.0 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bus} , U _L = 24 V, up to HW 05 or later) Protective circuit Protective circuit Reverse polarity protection; electronic Polentials: Axioline F local bus supply (U _{Bus}) Supply voltage 5 V DC (via bus base module) max. 2.5 A (from HW 05) Democration data Connection data Connection technology Connection technology Connection technology Connection technology Connection technology Connection method Please observe the information provided on conductor cross section rigid 0.2 mm² 1.5 mm² Conductor cross section field 0.2 mm² 1.5 mm² Conductor cross section field 0.2 mm² 1.5 mm² Conductor cross section field Push-in connection Connection method Push-in connection Connection method Push-in connection Connection field Push-in connection Connection field Push-in connection Connection method Push-in connection Connection field Push-in connection Connection field Push-in connection Note on the connection method Push-in connection Connection field Push-in connection Connection field Push-in connection Conductor cross section field Push-in connection Connection field Push-in connection Connection field Push-in connection Conductor cross section field Push-in fiel	Mounting position	any (observe temperature derating)
Display of the properties It (IEC 60664-1, EN 60664-1)	Scope of delivery	including bus base module and Axioline F connector
Pollution degree 2 (IEC 60664-1, EN 60664-1) ectrical properties Maximum power dissipation for nominal condition 14 W Potentials: Communications power U _L feed-in (the supply of the Axioline F local bus U _{Bus} is generated from U _L) Supply voltage 22 V DC Supply voltage range 19.2 V DC 30 V DC (including all tolerances, including ripple max. 583 mA (2.0 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bus} , U _L = 24 V, the 05 or later) Power consumption 2 max. 14 W (2.0 A at U _{Bus} , U _L = 24 V, HW 05 or later) Protective circuit 3 Surge protection; electronic Reverse polarity protection; electronic Power supply voltage 5 V DC (via bus base module) Power supply unit 4 max. 2 A (up to HW 04) connection data Connection technology Connection name Axioline F connector Note on the connection method Please observe the information provided on conductor cross section rigid 0.2 mm² 1.5 mm² Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section flexible 0.2 mm² 1.5 mm² Axioline F connector Connection method Push-in connection Connection method Push-in connection Axioline F connector Connection method Push-in connection Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section method Push-in connection Connection method Push-in connection Conductor cross section method Push-in connection in the "Axioline F: system and installation" user manus Conductor cross section, rigid 0.2 mm² 1.5 mm² Conductor cross section in method Push-in connection Conductor cross section in method Push-in connection Conductor cross section in method Push-in connection Conductor cro	Insulation characteristics	
Connection technology Connection data Connection technology Connection technology Connection technology Connection technology Connection technology Connection name Note on the connection method Conductor cross section rigid Conductor cross section flexible Conductor cross section flexible Conductor cross section flexible Conductor cross section method Conductor connection Push-in connection Push-in connection Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections method Conductor cross section flexible Conductor cross section method Push-in connection Push-in connection Conductor cross section flexible Conductor cross section flexible Conductor cross section method Push-in connection Connection method Push-in connection Conductor cross section flexible Conductor cross section	Overvoltage category	II (IEC 60664-1, EN 60664-1)
Maximum power dissipation for nominal condition 14 W 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. 583 mA (2.0 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bus} , U _L = 24 V, HW 05 or later) 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) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Innection data Connection technology Connection name Axioline F connector Note on the 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 flexible 0.2 mm² 1.5 mm² Conductor cross section method Push-in connection Connection method Push-in connection Connection method Push-in connection Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual conductor cross section flexible Conductor cross section flexible Oximical method Push-in connection Connection method Push-in connection Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual conductor cross section in the tonic provided on conductor cross section in the tonic provided on conductor cross section flexible Oximical method Push-in connection Conductor consection method Push-in connection Connection method Push-in connection Conductor consection method Push-in connection	Pollution degree	2 (IEC 60664-1, EN 60664-1)
Potentials: Communications power U _L feed-in (the supply of the Axioline F local bus U _{Bus} is generated from U _L) Supply voltage Supply voltage range 19.2 V DC 30 V DC (including all tolerances, including ripple Current draw max. 583 mA (2.0 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bus} , U _L = 24 V, HW 05 or later) 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) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Dennection data Connection technology Connection name Axioline F connector Note on the 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 flexible 0.2 mm² 1.5 mm² Conductor connection Axioline F connector Connection method Push-in connection Connection method Push-in connection Connection method Push-in connection Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor connection method Push-in connection Push-in connection Connection method Push-in connection Push-in connection Connection method Push-in connection Push-in connection Push-in c	ectrical properties	
Supply voltage ange 19.2 V DC 30 V DC (including all tolerances, including ripple Current draw max. 583 mA (2.0 A at U _{Bug} , U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Bug} , U _L = 24 V, up to HW 04) max. 14 W (2.0 A at U _{Bug} , U _L = 24 V, up to HW 04) max. 14 W (2.0 A at U _{Bug} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bug} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bug} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bug} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bug} , U _L = 24 V, HW 05 or later) Protective circuit Surge protection; electronic Reverse polarity protection; electronic Potentials: Axioline F local bus supply (U _{Bug}) Supply voltage 5 V DC (via bus base module) Power supply unit max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Innection data Connection technology 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 cross section figid 0.2 mm² 1.5 mm² Conductor cross section figid 0.2 mm² 1.5 mm² Conductor cross section figible 0.2 mm² 1.5 mm² Conductor cross section AWG 24 16 Stripping length 8 mm Axioline F connector Connection method Push-in connection Push-in connection Connection method Push-in connection Push-in connection Connection method Push-in connection Push-in connection Push in connection Connection method Push-in connection Push-in connection Push-in connection Connection method Push-in connection Push-in connection field on conductor cross section in the "Axioline F: system and installation" user manual conductor cross section, rigid 0.2 mm² 1.5 mm²	Maximum power dissipation for nominal condition	14 W
Supply voltage range Current draw max. 583 mA (2.0 A at U _{Buar} , U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Buar} , U _L = 24 V, up to HW 04) max. 14 W (2.0 A at U _{Buar} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Buar} , U _L = 24 V, HW 05 or later) Power consumption max. 14 W (2.0 A at U _{Buar} , U _L = 24 V, HW 05 or later) Protective circuit Surge protection; electronic Reverse polarity protection; electronic Potentials: Axioline F local bus supply (U _{Buar}) Supply voltage 5 V DC (via bus base module) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Pomection data Connection technology Connection name Axioline F connector Note on the connection method Please observe the information provided on conductor cross section in the "Axioline F: system and installation" user manual conductor cross section flexible Conductor cross section flexible Conductor cross section flexible Conductor cross section flexible Conductor cross section MWG Stripping length Axioline F connection Push-in connection Connection method Push-in connection Push-in connection Connection method Push-in connection Push-in connection Push-in connection Connection method Push-in connection Push-in connection Push-in connection method Push-in connection Push-in connection Conductor cross section flexible Conductor cross section flexible Push-in connection Push-in connection Push-in connection Connection method Push-in connection Push-in connection Push-in connection Connection method Push-in connection Push-in connection Connection method Push-in connection Push-in connection Connection method Push-in connection	Potentials: Communications power U_L feed-in (the supply of t	the Axioline F local bus U_Bus is generated from U_L)
Current draw max. 583 mA (2.0 A at U _{Busr} , U _L = 24 V, up to HW 04) max. 670 mA (2.5 A at U _{Busr} , U _L = 24 V, HW 05 or later) max. 14 W (2.0 A at U _{Busr} , U _L = 24 V, HW 05 or later) max. 16 W (2.5 A at U _{Busr} , U _L = 24 V, HW 05 or later) Protective circuit Protective circuit Surge protection; electronic Reverse polarity protection; electronic Reverse polarity protection; electronic Potentials: Axioline F local bus supply (U _{Bus}) Supply voltage 5 V DC (via bus base module) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Pomection data 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 cross section fligid Conductor cross section fligid Conductor cross section fligid Conductor cross section flexible Conductor cross section flexible Conductor cross section flexible Conductor cross section AWG 8 mm Axioline F connector Connection method Push-in connection Conductor cross section flexible O.2 mm² 1.5 mm² Conductor cross section flexible Push-in connection	Supply voltage	24 V DC
max. 670 mA (2.5 A at U _{Bus} , U _L = 24 V, HW 05 or later) max. 14 W (2.0 A at U _{Bus} , U _L = 24 V, HW 05 or later) max. 16 W (2.5 A at U _{Bus} , U _L = 24 V, HW 05 or later) 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) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Connection data Connection name Axioline F connector Note on the connection Conductor cross section rigid Conductor cross section flexible Conductor cross section AWG Stripping length Axioline F connection Push-in connection Conductor cross section AWG Stripping length 8 mm Axioline F connection Push-in connection Push-in connection Connection method Push-in connection Push-in connection Push-in connection Push-in connection Conductor cross section flexible Conductor cross section AWG Stripping length Push-in connection Pus	Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple
Power consumption max. 14 W (2.0 A at U _{Bus} , U _L = 24 V, up to HW 04) max. 16 W (2.5 A at U _{Bus} , U _L = 24 V, HW 05 or later) 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) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Pomection data 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 cross section flexible Conductor cross section flexible Conductor cross section flexible Conductor cross section AWG Stripping length Axioline F connection Push-in connection Stripping length Push-in connection Push-in connection Push-in connection Push-in connection Push-in connection Push-in connection flexible Conductor cross section flexible Push-in connection Push-in connec	Current draw	max. 583 mA (2.0 A at U _{Bus} , U _L = 24 V, up to HW 04)
max. 16 W (2.5 A at U Bus plus L = 24 V, HW 05 or later) 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) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Connection data 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 cross section figid Conductor cross section rigid Conductor cross section flexible Conductor cross section AWG Stripping length Axioline F connection Push-in connection Conductor cross section flexible 0.2 mm² 1.5 mm² Conductor cross section AWG Stripping length Push-in connection Push-in connection Push-in connection Push-in connection Push-in connection flexible 0.2 mm² 1.5 mm² Push-in connection Push-in connection Push-in connection Push-in connection Connection Fire and installation user manual conductor cross section method Push-in connection Push-in connection Push-in connection Push-in connection Push-in connection Push-in connection Connection method Push-in connection		max. 670 mA (2.5 A at U _{Bus} , U _L = 24 V, HW 05 or later)
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) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Connection data 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 cross section flexible Conductor cross section flexible Conductor cross section flexible O.2 mm² 1.5 mm² Conductor cross section AWG Stripping length 8 mm Axioline F connection Push-in connection Connection Axioline F connector Connection method Push-in connection Connection method Push-in connection Push-in connection Push-in connection Push-in connection Note on the connection method Push-in connection Push-in connection Note on the connection method Push-in connection Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual	Power consumption	max. 14 W (2.0 A at U _{Bus} , U _L = 24 V, up to HW 04)
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) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) Connection data 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 cross section flexible Conductor cross section flexible Conductor cross section flexible O.2 mm² 1.5 mm² Conductor cross section AWG Stripping length 8 mm Axioline F connection Push-in connection Connection Axioline F connector Connection method Push-in connection Connection method Push-in connection Push-in connection Push-in connection Push-in connection Note on the connection method Push-in connection Push-in connection Note on the connection method Push-in connection Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual		max. 16 W (2.5 A at U _{Bus} , U _L = 24 V, HW 05 or later)
Potentials: Axioline F local bus supply (U _{Bus}) Supply voltage 5 V DC (via bus base module) max. 2 A (up to HW 04) max. 2.5 A (from HW 05) connection data 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 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 Push-in connection 24 16 Stripping length 8 mm Axioline F connector Connection method Push-in connection Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and	Protective circuit	
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Power supply unit max. 2 A (up to HW 04) max. 2.5 A (from HW 05) connection data 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 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 Stripping length 8 mm Axioline F connector Connection method Push-in connection 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 sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross section and conduc	Potentials: Axioline F local bus supply (U _{Bus})	
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Connection data 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 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 Stripping length 8 mm Axioline F connector Connection method Push-in connection Push-in connection Push-in connection Push-in connection Rote on the connection method Please observe the information provided on conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installation" user manual conductor cross sections in the "Axioline F: system and installa	Power supply unit	max. 2 A (up to HW 04)
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Connection method Push-in connection 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	Stripping length	8 mm
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	Axioline F connector	
Sections in the "Axioline F: system and installation" user manual conductor cross section, rigid 0.2 mm² 1.5 mm²	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, flexible 0.2 mm ² 1.5 mm ²	Conductor cross section, rigid	0.2 mm² 1.5 mm²
	Conductor cross section, flexible	0.2 mm² 1.5 mm²



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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: 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)

Mounting

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

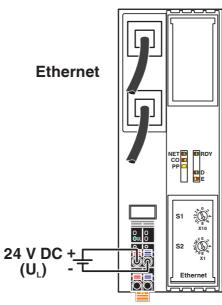
2688459

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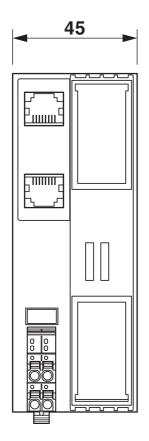


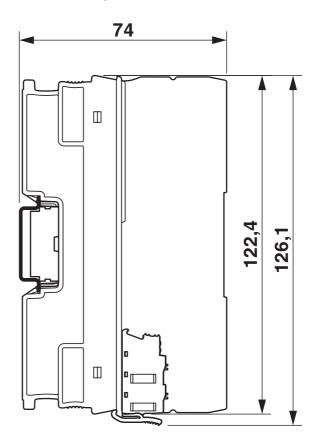
Drawings





Dimensional drawing



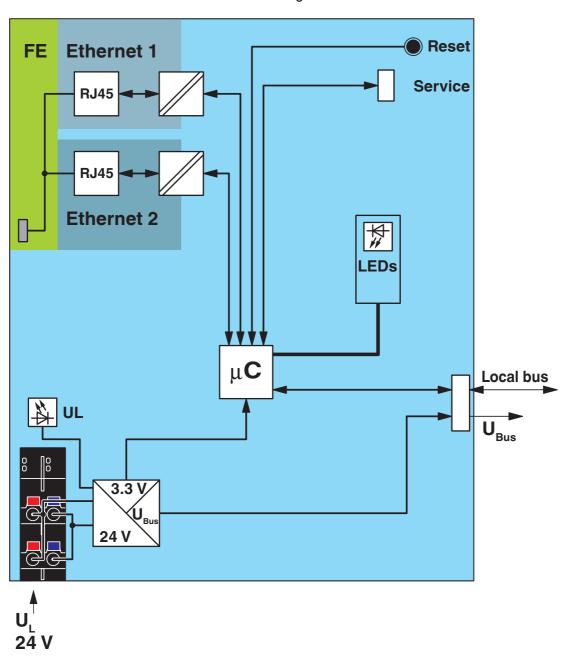


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Block diagram



Internal wiring of the terminal points



2688459

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Approvals



EAC

Approval ID: RU*DE*08.B.00529/19



DNV GL

Approval ID: TAA00000DF



LR

Approval ID: LR2001902TA



NK

Approval ID: 14A006



BV

Approval ID: 36433/B4 BV



PRS

Approval ID: TE/1020/880590/21



UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



KC

Approval ID: MSIP-REI-PCK-2688459



RINA

Approval ID: ELE283021XG



cUL Listed

Approval ID: FILE E 238705



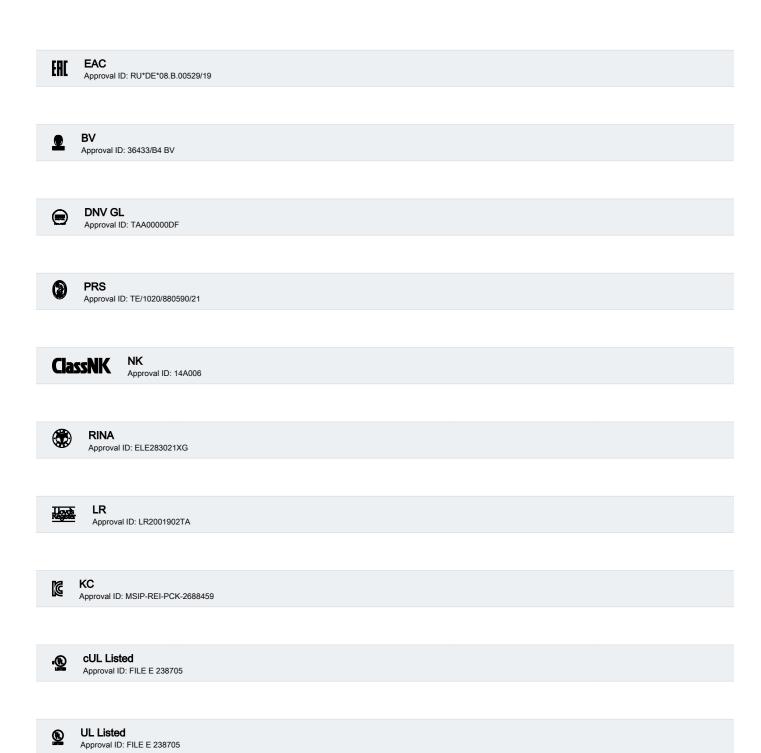
UL Listed

Approval ID: FILE E 238705



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CUL Listed Approval ID: FILE E 238705

UL Listed
Approval ID: FILE E 238705



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608
ETIM	
ETIM 8.0	EC001604
UNSPSC	

32151600



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Environmental Product Compliance

REACh SVHC Lead 7439-92-1



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Accessories

AXL F BS BK - Bus connector

2701422

https://www.phoenixcontact.com/in/products/2701422

Axioline F bus base module for housing type BK



FL PLUG RJ45 GR/2 - RJ45 connector

2744856

https://www.phoenixcontact.com/in/products/2744856



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, cable outlet: straight, color: green, Ethernet

2688459

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FL PLUG RJ45 GN/2 - RJ45 connector

2744571

https://www.phoenixcontact.com/in/products/2744571



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, cable outlet: straight, color: green, Ethernet

FL CAT5 HEAVY - Data cable

2744814

https://www.phoenixcontact.com/in/products/2744814



CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 $\,$ mm 2 , solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm \pm 0.15 mm diameter



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FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/in/products/2744830



By the meter, Installation cable, Ethernet CAT5 (100 Mbps), shielded, PUR halogen-free, water blue RAL 5021, 4-wire (2x2xAWG26/7; SF/UTP), color single wire: white/orange-orange, white/green-green, cable length: Free entry (1. 0 ... 1000.0 m)

FL CRIMPTOOL - Assembly tool

2744869

https://www.phoenixcontact.com/in/products/2744869

Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site





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ZB 20,3 AXL UNPRINTED - Zack marker strip

0829579

https://www.phoenixcontact.com/in/products/0829579



Zack marker strip for Axioline F (device labeling), in 2 x 20.3 mm pitch, unprinted, 25-section, for individual labeling with B-STIFT 0.8, X-PEN, or CMS-P1-PI OTTER

ZBF 10/5,8 AXL UNPRINTED - Zack Marker strip, flat

0829580

https://www.phoenixcontact.com/in/products/0829580



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.15 mm, lettering field size: 4×10 , 15×5 mm, $1 \times 5.8 \times 5$ mm, Number of individual labels: 50



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EMT (35X18,7)R - Insert label

0801831

https://www.phoenixcontact.com/in/products/0801831



Insert label, for marking Phoenix Contact Axioline modules, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: insert, lettering field size: 35 x 18.7 mm, Number of individual labels: 500

CAB-USB A/ USB C/1,8M - Connecting cable

2404677

https://www.phoenixcontact.com/in/products/2404677

Connecting cable, for connecting the controller to a PC from USB A to USB C





https://www.phoenixcontact.com/in/products/2688459



CAB-USB C/ USB C/1,8M - Connecting cable

1021809

https://www.phoenixcontact.com/in/products/1021809

Connecting cable, for connecting the controller to a PC from USB C to USB C



CAB-USB A/MICRO USB B/2,0M - Connecting cable

2701626

https://www.phoenixcontact.com/in/products/2701626



Connecting cable, for connecting the controller to a PC for PC Worx and LOGIC+, USB A to micro USB B, 2 m in length.

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