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Axioline F, Bus coupler, Ethernet (2 networks), 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 represents the link between two Ethernet networks (Modbus/TCP) and the Axioline F system.

It offers the option of isolated, simultaneous communication in two different networks in order to redundantly create the network infrastructure between the controller and bus coupler.

Up to 63 Axioline F devices can be connected to the bus coupler.

Your advantages

- ☑ 2 IP addresses
- Rotary coding switches for setting the IP address assignment and other functions
- Modbus/TCP (UDP) support
- ☑ BootP and DHCP
- Firmware can be updated
- Mark 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



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 008417
GTIN	4055626008417
Weight per Piece (excluding packing)	220.000 g
Custom tariff number	85176200
Country of origin	Germany



Technical data

Dimensions

Width	45 mm
Height	126.1 mm
Depth	74 mm
Note on dimensions	The depth is valid when a TH 35-7,5 DIN rail is used (according to EN 60715).

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C (Mounting position: wall mounting on horizontal DIN rail)
	-25 °C 55 °C (Mounting position: any)
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)
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)
Degree of protection	IP20

Connection data

Designation	Axioline F connector
Connection method	Push-in connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	8 mm

General

Mounting type	DIN rail
Color	traffic grey A RAL 7042
Net weight	177 g
Note on weight specifications	with connector and bus base module
Mounting position	any (observe temperature derating)

Interfaces

Designation	Ethernet (2 networks)
No. of channels	2
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing



Technical data

Interfaces

Transmission speed	10/100 Mbps (Half or full duplex mode (automatic detection, can be adjusted manually))
Transmission physics	Ethernet in RJ45 twisted pair
Designation	Axioline F local bus
No. of channels	1
Connection method	Bus base module
Transmission speed	100 Mbps
Designation	Service
Connection method	Micro USB type B

Axioline potentials

Designation	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 consumption	max. 583 mA (with 2 A at U_{Bus} for the I/Os and U_{L} = 24 V)
Power consumption	max. 14 W (with 2 A load at U _{Bus} for the I/Os)
Designation	Axioline F local bus supply (U _{Bus})
Supply voltage	5 V DC (via bus base module)
Power supply unit	2 A
Protective circuit	Surge protection of the supply voltage electronic
	Polarity reversal protection of the supply voltage electronic

Standards and Regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
	Continuous shock according to EN 60068-2-27/IEC 60068-2-27 10g
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g

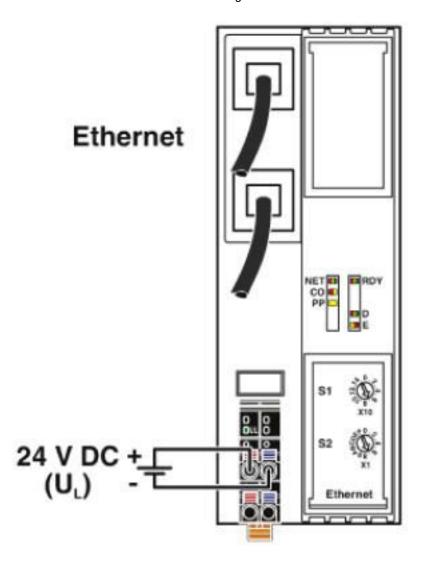
Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

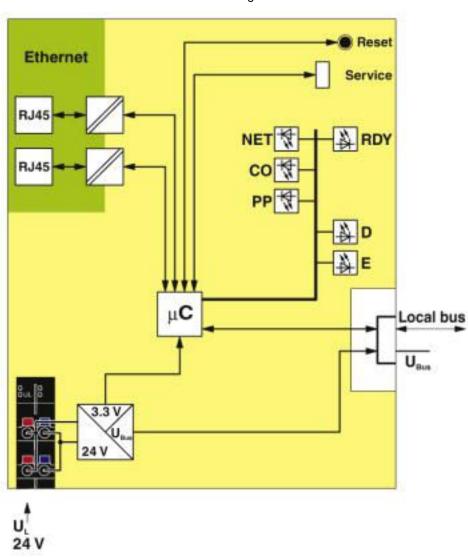


Connection diagram



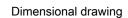


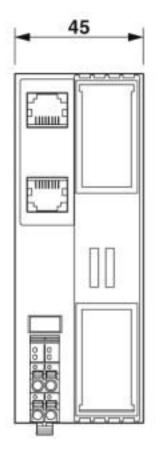
Block diagram

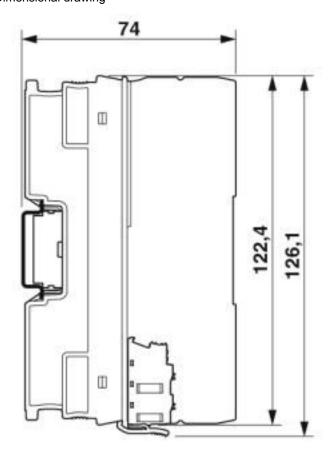


Internal wiring of the terminal points









Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604



Classifications

UNSPSC

UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Accessories

Accessories

Data cable by the meter

Network cable - FL CAT5 HEAVY - 2744814



CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, $2 \times 2 \times 0.22$ mm², solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm \pm 0.15 mm diameter

Installation cable - FL CAT5 FLEX - 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)

Device marking

Insert label - EMT (35X18,7)R - 0801831



Insert label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: snapped into marker carrier, lettering field size: 35 x 18.7 mm, Number of individual labels: 500

DIN rail connector



Accessories

Bus connector - AXL BS BK - 2701422



Axioline F bus base module for housing type BK

Plug

RJ45 connector - FL PLUG RJ45 GR/2 - 2744856



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, gray for straight cables, for assembly on site. For connections that are not crossed, it is recommended that you use the connector set with gray bend protection sleeve.

RJ45 connector - FL PLUG RJ45 GN/2 - 2744571



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, green for crossed cables, for assembly on site. For connections that are crossed, it is recommended that the connector set with green bend protection sleeves is used.

Programming cable

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

Terminal marking



Accessories

Zack marker strip - ZB 20,3 AXL UNPRINTED - 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-PLOTTER

Zack Marker strip, flat - ZBF 10/5,8 AXL UNPRINTED - 0829580



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 10.15 mm, lettering field size: 4 of 10.15 x 5 mm and 1 of 5.8 x 5 mm, Number of individual labels: 50

Assembly tool - FL CRIMPTOOL - 2744869



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

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