

AXL F BP SE4 - Module carrier



1088135

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Axioline F, Backplane, 4 slots for Axioline Smart Elements, transmission speed in the local bus: 100 Mbps, degree of protection: IP20



Product description

The Axioline F backplane is intended for use in a station that is opened by an Axioline F bus coupler or an Axiocoupler. The backplane has four "Smart Element Interface" slots to accept Axioline Smart Elements.

Your advantages

- Preparing the communications power supply for the plugged-in Axioline Smart Elements
- Supply feed-in for the peripheral supply U_P for the plugged in Axioline Smart Elements

Commercial data

Item number	1088135
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR05
Product key	DRIBU1
GTIN	4055626887487
Weight per piece (including packing)	118 g
Weight per piece (excluding packing)	86.85 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	40 mm
Height	122.4 mm
Depth	36.9 mm
Note on dimensions	The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).
Complete module width	40 mm
Complete module height	124.6 mm
Complete module depth	76.1 mm
Note	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
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Material specifications

Color (Housing)	gray (RAL 7042)
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Interfaces

Axioline F local bus

Number of interfaces	2
Connection method	Bus base module
Transmission speed	100 Mbps

Smart Element interface

Number of interfaces	4
Connection method	Card edge connector

Product properties

Product type	I/O component
Product family	Axioline F
Type	block modular
Mounting position	Panel mounting on horizontal or vertical DIN rail

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Special properties	4 slots for Axioline Smart Elements
Insulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Maximum power dissipation for nominal condition	0.6 W
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Potentials: Axioline F local bus supply (U_{BUS})

Supply voltage	5 V DC
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Potentials: Communications power supply of the Smart Elements (U_{SE})

Supply voltage	3.3 V DC (using card edge connectors)
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Potentials: I/O supply feed-in (U_P)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 16 A (provide external protection) max. 12 A (Applications with UL approval, external fusing)
Current consumption	min. 1.5 mA (without connected Smart Elements, with nominal voltage)
Protective circuit	Surge protection; Suppressor diode
Protection	max. 16 A max. 12 A (Applications with UL approval)

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply of the local bus (U_{BUS}) / 24 V supply (I/Os)	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply of the local bus (U_{BUS}) / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection technology

Connection name	I/O supply feed-in (U_P)
Note on the connection method	Please observe the information provided on conductor cross-sections in the "Axioline F: system and installation" user manual.

I/O supply feed-in (U_P)

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	0.5 mm ² ... 2.5 mm ²
Conductor cross-section, flexible	0.5 mm ² ... 2.5 mm ²
Conductor cross-section AWG	20 ... 14
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
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)

Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	30g
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g

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	Panel mounting on horizontal or vertical DIN rail

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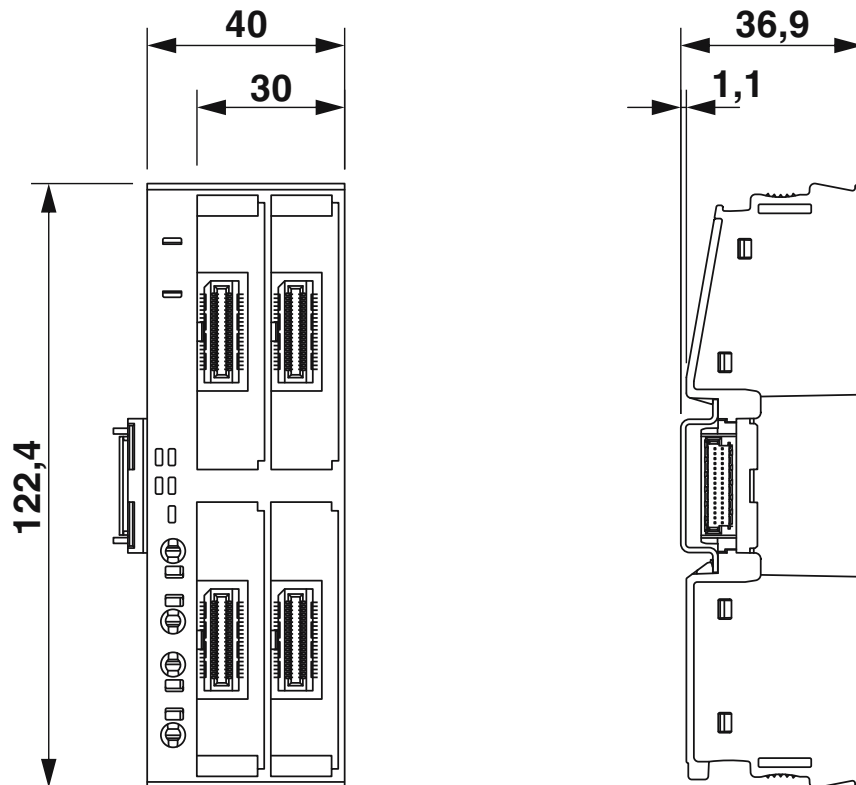
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Drawings

Dimensional drawing



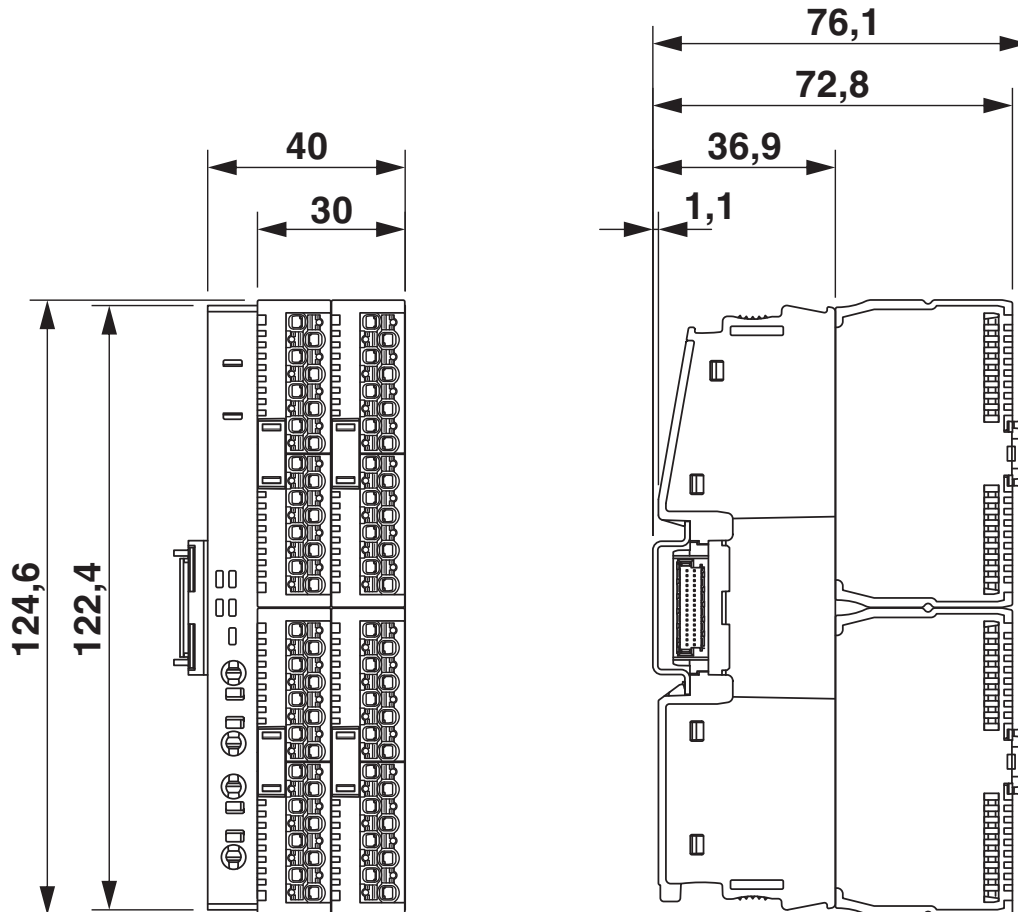
Dimensions (in mm)

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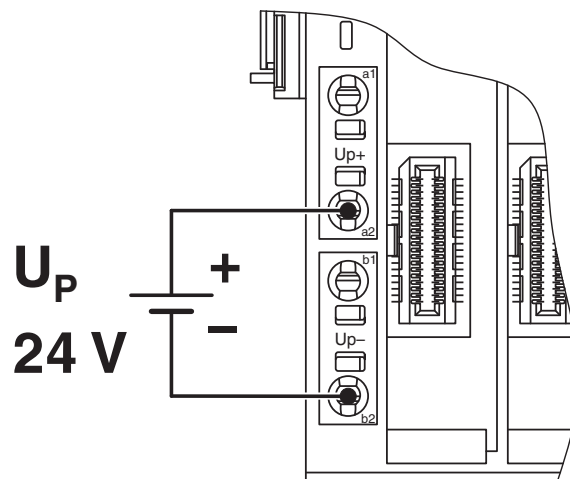
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Dimensional drawing



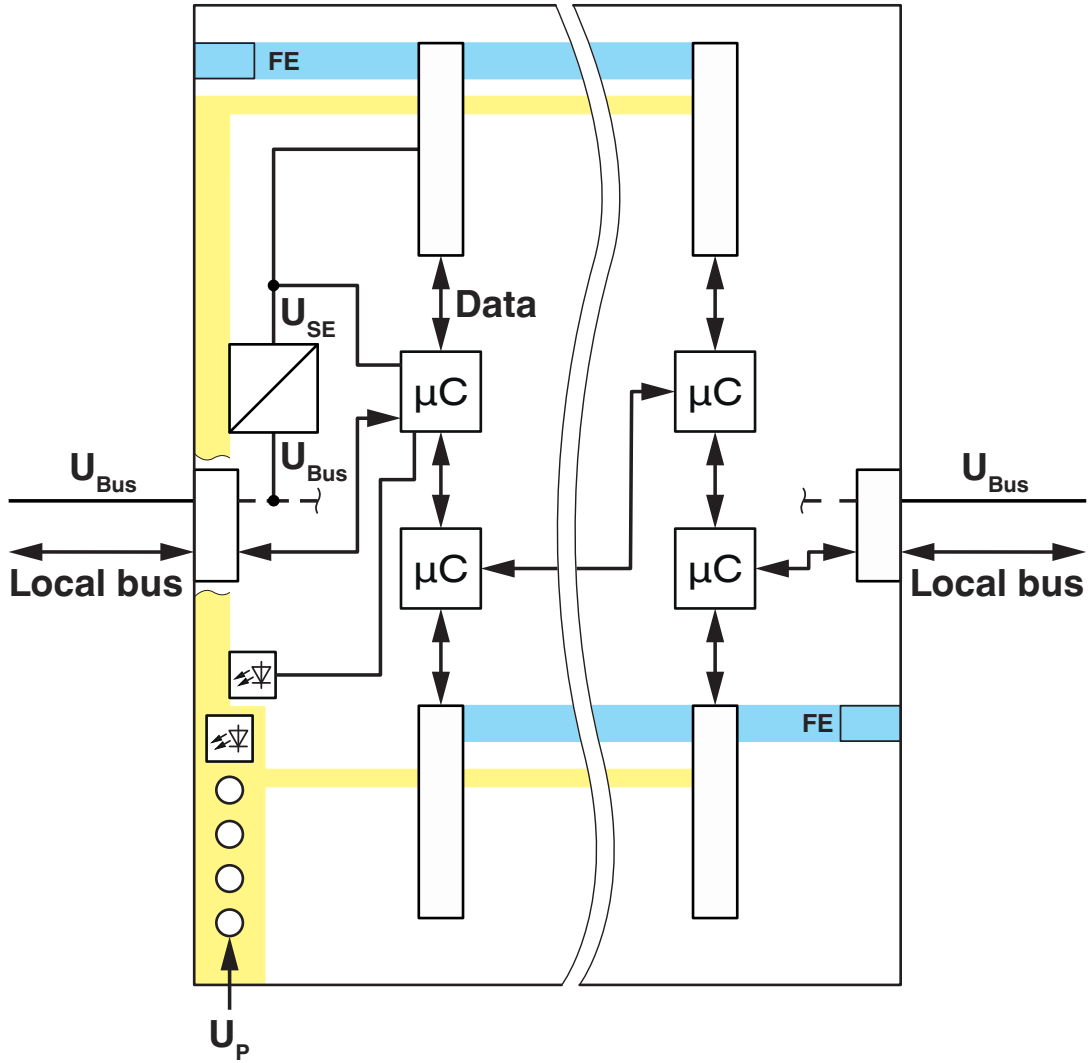
Dimensions (in mm) with attached Axiline Smart Elements

Connection diagram



Connection example

Block diagram



Basic circuit diagram

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Approvals

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cULus Listed

Approval ID: E238705

FS Thermoprocess

Approval ID: 968 INS 799.01 25



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Classifications

ECLASS

ECLASS-13.0	27242610
ECLASS-15.0	27242610

ETIM

ETIM 10.0	EC001600
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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	aa4ef70b-2445-4e85-95a9-9f7127084e2f

EF3.1 Climate Change

CO2e kg	4.882 kg CO2e
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