

AXL F BP SE4 - Module carrier



1088135

<https://www.phoenixcontact.com/us/products/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

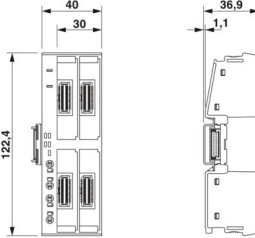
- Preparing the communications power supply for the plugged-in Axioline Smart Elements
- Supply feed-in for the peripheral supply U_P for the plugged in Axioline Smart Elements

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 |
|---------------------|-------------------------|

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 |
| Special properties | 4 slots for Axioline Smart Elements |

Insulation characteristics

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| | |
|----------------------|------------------------------|
| 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 |
|---|-------|

Potentials: Axioline F local bus supply (U_{BUS})

| | |
|----------------|--------|
| Supply voltage | 5 V DC |
|----------------|--------|

Potentials: Communications power supply of the Smart Elements (U_{SE})

| | |
|----------------|---------------------------------------|
| Supply voltage | 3.3 V DC (using card edge connectors) |
|----------------|---------------------------------------|

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 |

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 |

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| | |
|--|---|
| 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 | Panel mounting on horizontal or vertical DIN rail |

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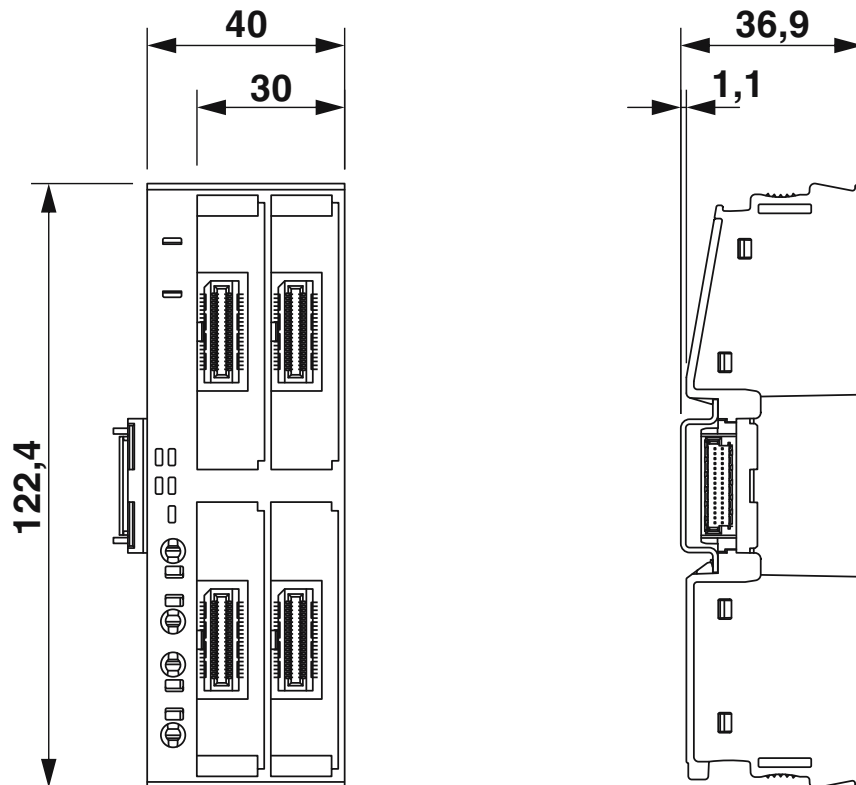
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Drawings

Dimensional drawing



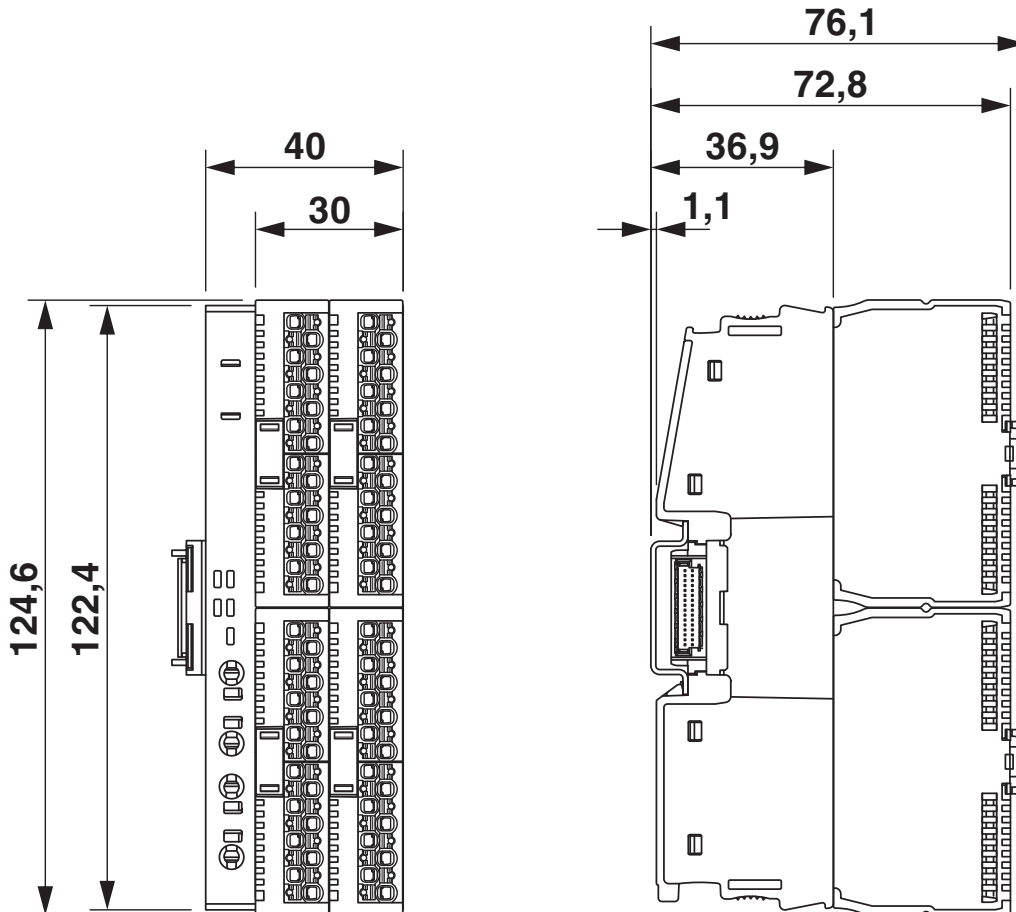
Dimensions (in mm)

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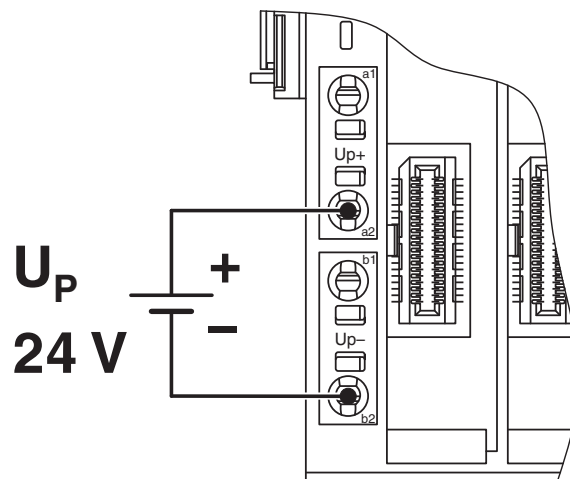
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Dimensional drawing



Dimensions (in mm) with attached Axiline Smart Elements

Connection diagram

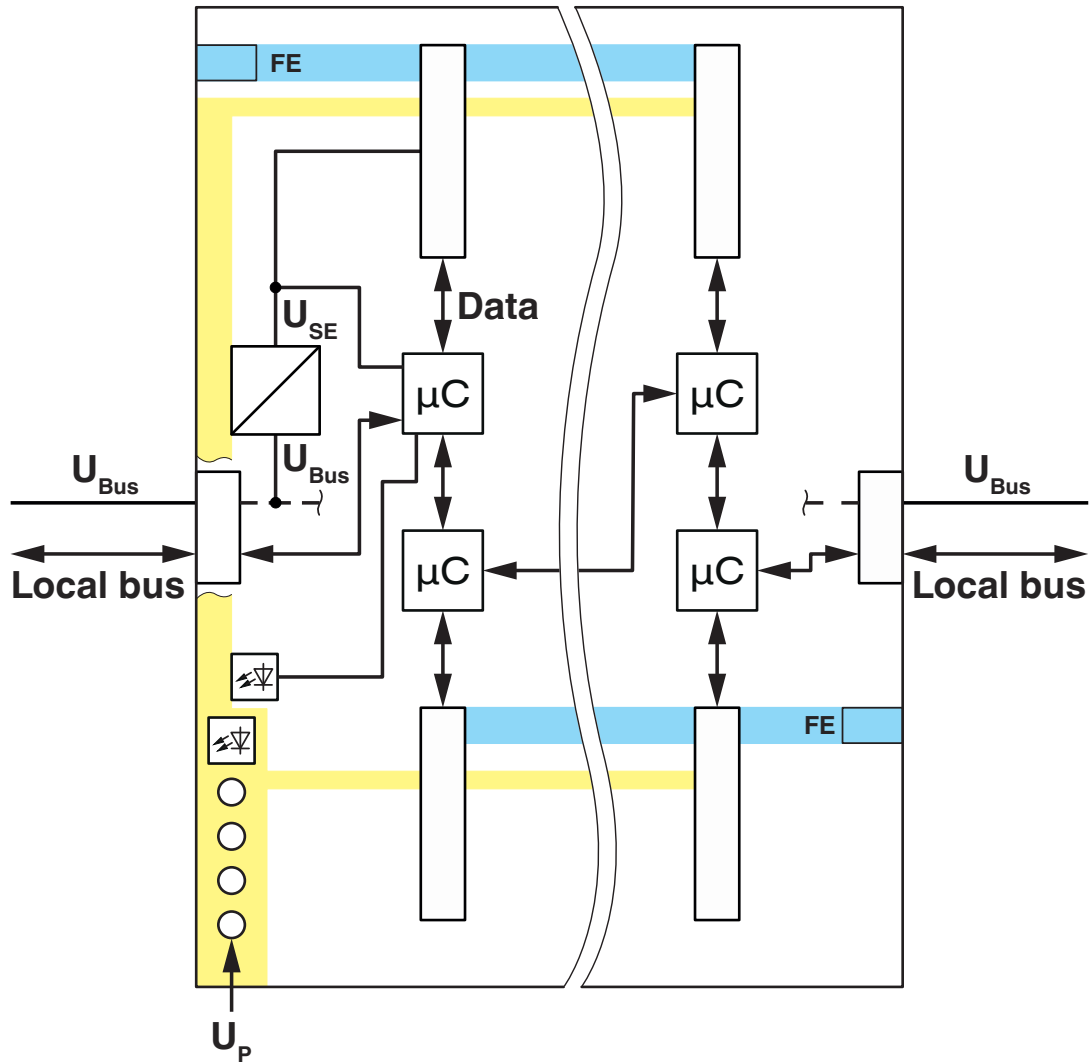


Connection example

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Block diagram



Basic circuit diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1088135>



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 |
|-----------|----------|

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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