# AXL F PWR 1H - Feed-in module

2688297

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CRA-READY



Axioline F, Power module for the logic supply $U_{Bus}$, max. 4 A, transmission speed in the local bus: 100 Mbps, degree of protection: IP20, including bus base module and Axioline F connector; The product is being prepared for compliance with the Cyber Resilience Act (CRA).

## Product description

The module is designed for use within an Axioline F station. If the maximum load of the bus coupler for the Axioline F local bus supply (communications power $U_{Bus}$) is reached, this module can be used to provide this voltage again. To this end, apply a 24 V DC voltage ($U_L$) to the module from which the $U_{Bus}$ is generated.

## Your advantages

- Supply of the 24 V voltage U<sub>L</sub> for generating the communications power U<sub>Bus</sub>

ELEKTROGERÄTE RÜCKNAHME

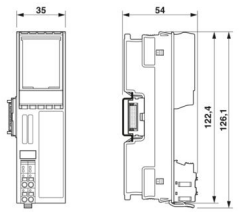
## Commercial data

| | |
|---|---|
| Item number | 2688297 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DR02 |
| Product key | DRI223 |

| | |
|---|---|
| GTIN | 4046356566209 |
| Weight per piece (including packing) | 157.9 g |
| Weight per piece (excluding packing) | 107 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

## Technical data

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 35 mm |
| Height | 126.1 mm |
| Depth | 54 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 | Only for industrial use |
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

Utilization restriction

| | |
|---|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |

### Mounting

| | |
|---|---|
| Mounting type | DIN rail mounting |
| Mounting position | any (no temperature derating) |

### Material specifications

| | |
|---|---|
| Color (Housing) | gray (RAL 7042) |

### Interfaces

Axioline F local bus

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

### Product properties

| | |
|---|---|
| Product type | I/O component |
| Product family | Axioline F |
| Type | block modular |
| Mounting position | any (no temperature derating) |

| | |
|---|---|
| Scope of supply | including bus base module and Axioline F connector |
| Special properties | The product is being prepared for compliance with the Cyber Resilience Act (CRA) |
| | max. 4 A |

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 | 2 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. 1.2 A ($I_{Bus}$ = 4 A; $U_L$ = 19,2 V) |
| Current consumption | 0 A |
| Protective circuit | Surge protection; electronic (35 V, 0.5 s) |
| | Reverse polarity protection; parallel diode; with external 5 A fuse (only for commissioning) |

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

| | |
|---|---|
| Supply voltage | 5 V DC (via bus base module) |
| Power supply unit | max. 4 A |

## 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. |

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. |
| 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 |

## 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

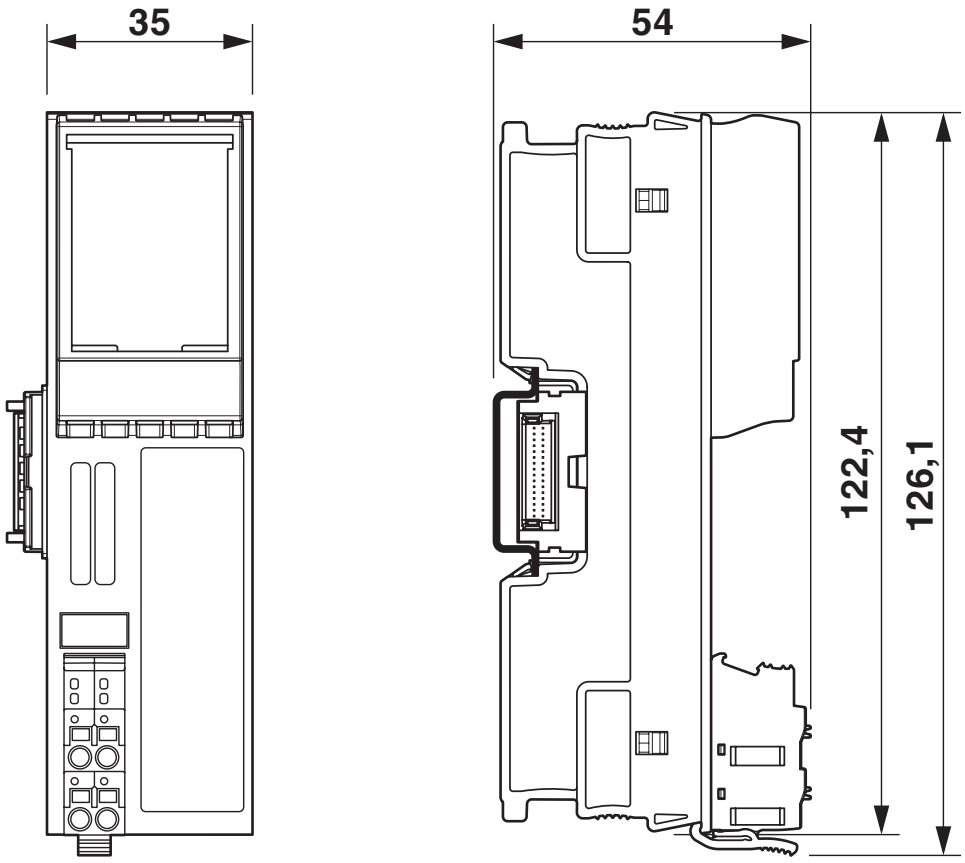
| | |
|---|---|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | 5g |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | 30g |
| Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27 | 10g |

## Standards and regulations

| | |
|---|---|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |

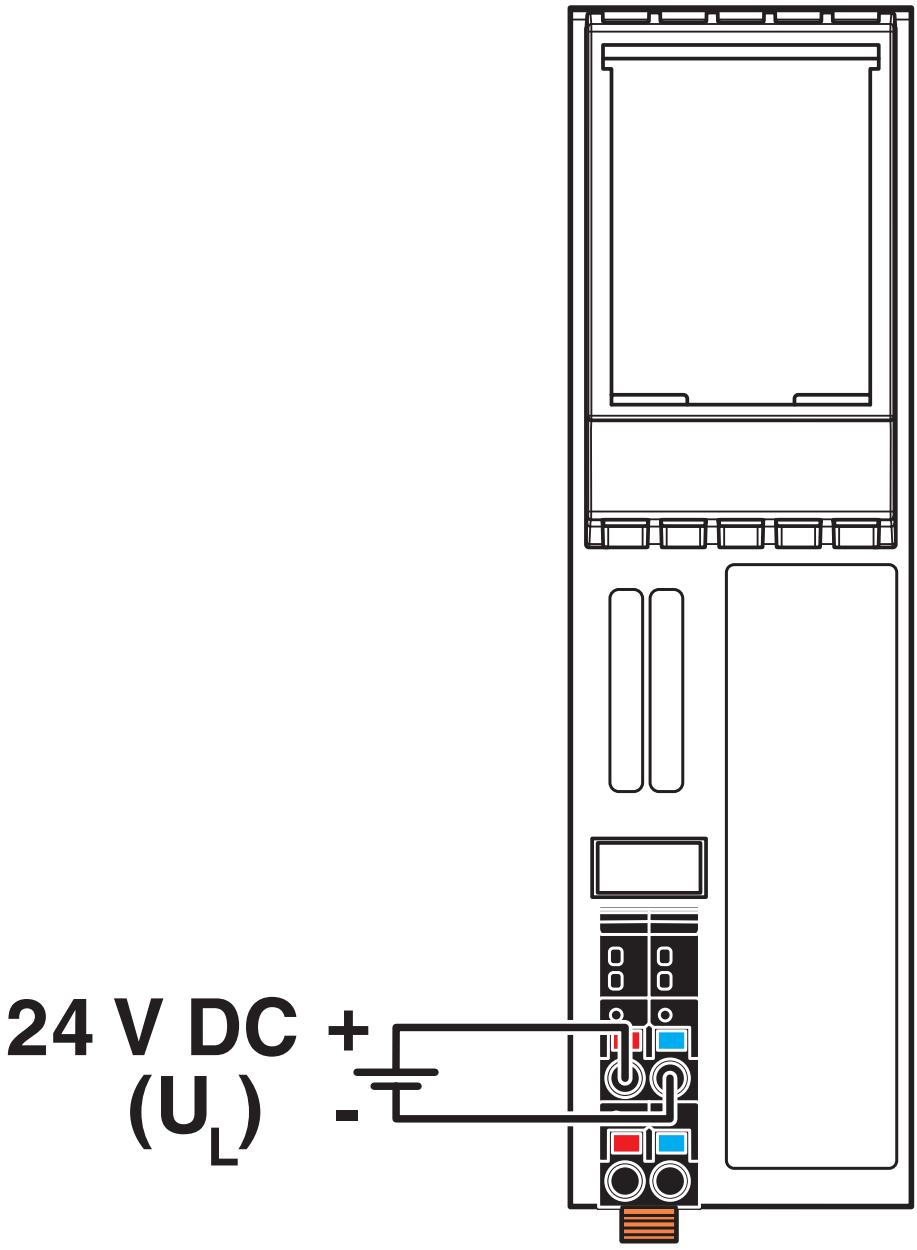
## Drawings

Dimensional drawing

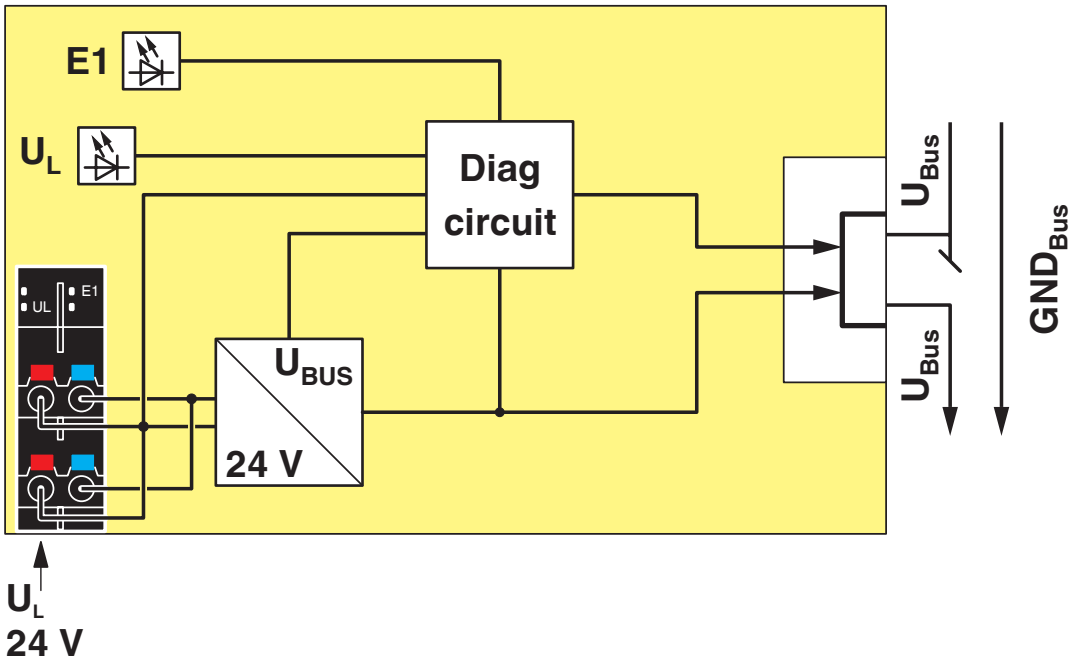



Dimensions

Connection diagram



Block diagram




Basic circuit diagram

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2688297

**DNV GL**
Approval ID: TAA00000DF

**LR**
Approval ID: LR2480202TA-02

**BSH**
Approval ID: 840c

**RINA**
Approval ID: ELE008423XG001

**ABS**
Approval ID: 23-2449604-PDA

**cULus Listed**
Approval ID: E238705

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27242610 |
| ECLASS-15.0 | 27242610 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001600 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 32151600 |

## 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-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |
| SCIP | 000ab22a-850f-400a-b969-1940d3bcb8d7 |


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