

IB IL 24 PWR IN/2-F-XC-PAC - Inline terminal



2701162

<https://www.phoenixcontact.com/us/products/2701162>

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Inline power terminal, version for extreme conditions, complete with accessories (connector and labeling field), 24 V DC, with fuse (main and segment voltage)

The figure shows the standard item

Product description

The terminal is designed for use within an Inline station. It provides a 24 V supply voltage to the main circuit (U_M) and automatically supplies power for the 24 V segment circuit (U_S). The terminal has protection against polarity reversal and surge voltage. The internal fuse protects the main and segment circuits. Thanks to special engineering measures and tests, the terminal can be used under extreme ambient conditions.

Your advantages

- Supply of the 24 V main voltage U_{M}
- Provision of the 24 V segment voltage U_{S}
- Main and segment circuits protected by an internal fuse
- Can be used under extreme ambient conditions
- Extended temperature range of -40 °C ... +70 °C (see "Tested successfully: use under extreme ambient conditions" in the data sheet)
- Coated PCBs

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2701162 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DR01 |
| Product key | DRI121 |
| GTIN | 4046356713757 |
| Weight per piece (including packing) | 84.888 g |
| Weight per piece (excluding packing) | 59 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

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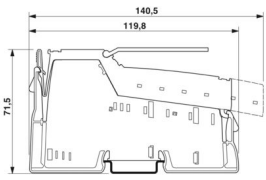


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Technical data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 12.2 mm |
| Height | 119.8 mm |
| Depth | 71.5 mm |

Material specifications

| | |
|-------|-------|
| Color | green |
|-------|-------|

Interfaces

Inline local bus

| | |
|----------------------|---|
| Number of interfaces | 2 |
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps / 2 Mbps (Can be used in Inline stations with these transmission speeds) |

System properties

Programming data

| | |
|-----------------------|-------|
| ID code (dec.) | none |
| Register length (bus) | 0 bit |

Fieldbus data telegram (PROFIBUS)

| | |
|-----------------------------|--------|
| Required parameter data | 0 Byte |
| Required configuration data | 0 Byte |

Product properties

| | |
|----------------|---------------|
| Product type | I/O component |
| Product family | Inline |
| Type | modular |

Insulation characteristics

| | |
|----------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
| Overvoltage category | II (IEC 60664-1, EN 60664-1) |
| Pollution degree | 2 (IEC 60664-1, EN 60664-1) |

Electrical properties

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| | |
|---|---|
| Maximum power dissipation for nominal condition | 1.8 W |
| Test section | 7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min |
| | 24 V supply (I/O) / functional ground 500 V AC 50 Hz 1 min |
| | 7.5 V supply (bus logic)/functional ground 500 V AC 50 Hz 1 min |
| Protective circuit | Surge protection; Suppressor diode |
| | Reverse polarity protection; Parallel polarity protection diode |
| | Overload protection, short-circuit protection in the main and segment circuits; Fuse 5 x 20 with 6.3 A, slow-blow Fuses with other values can also be used. The maximum fuse value is 8 A. For fuses with a value greater than 2 A, only slow-blow fuses may be used. |

Potentials

| | |
|----------------|-------------------------------|
| Supply voltage | 7.5 V DC (via voltage jumper) |
|----------------|-------------------------------|

Potentials: Main circuit supply (U_M)

| | |
|----------------------|--|
| Supply voltage | 24 V DC (via Inline connector) |
| Supply voltage range | 19.2 V ... 30 V (including all tolerances, including ripple) |
| Power supply | max. 6 A (sum of $U_M + U_S$) |

Potentials: Segment circuit supply (U_S)

| | |
|----------------------|--|
| Supply voltage | 24 V DC (nominal value) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Power supply | max. 6 A (sum of $U_M + U_S$) |

Connection data

Connection technology

| | |
|-----------------|------------------|
| Connection name | Inline connector |
|-----------------|------------------|

Inline connector

| | |
|-----------------------------------|--|
| Connection method | Spring-cage connection |
| Conductor cross-section, rigid | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 28 ... 16 |
| Stripping length | 8 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 55 °C (Standard) |
| | -40 °C ... 70 °C (Extended, see section "Tested successfully: use under extreme ambient conditions" in the data sheet.) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |
| Air pressure (operation) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |

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| | |
|----------------------------------|---|
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
|----------------------------------|---|

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 | 25g |

Standards and regulations

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

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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Drawings

Dimensional drawing



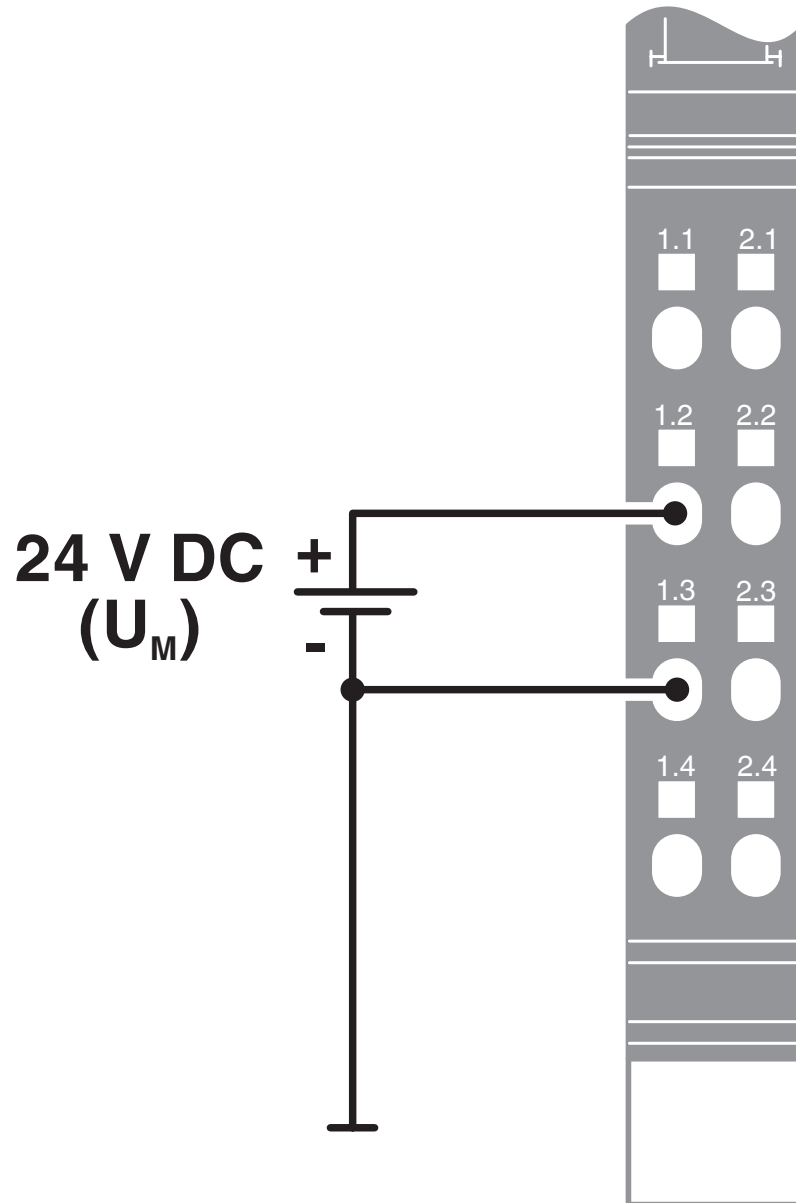
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Connection diagram



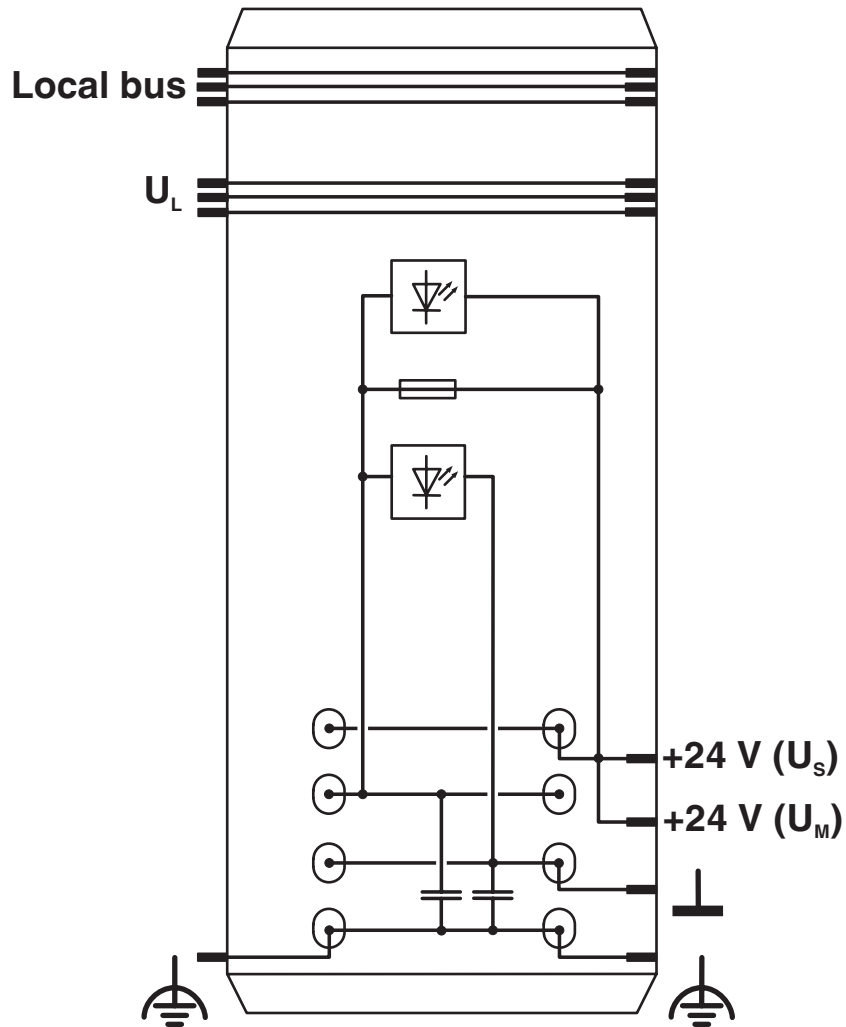
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Block diagram



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Environmental product compliance

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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