

# IB IL 24 PWR IN/F-PAC - Power module



2861438

<https://www.phoenixcontact.com/it/products/2861438>

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Inline power terminal block, complete with accessories (connector and labeling field), 24 V DC, with fuse (Main voltage)

## Product description

The terminal is designed for use within an Inline station. It enables the 24 V supply voltage to be fed into the main circuit ( $U_M$ ). The terminal has protection against polarity reversal and surge voltage. In addition, this terminal can be used to supply power for a 24 V segment circuit ( $U_S$ ).

## Your advantages

- Supply of the 24 V main voltage  $U_{M}$
- Main circuit protected by an internal fuse
- Feed-in or provision of the 24 V segment voltage  $U_S$
- Diagnostic and status indicators

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2861438       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DRI           |
| Product key                          | DRI121        |
| GTIN                                 | 4017918894368 |
| Weight per piece (including packing) | 86.05 g       |
| Weight per piece (excluding packing) | 44 g          |
| Customs tariff number                | 85389091      |
| Country of origin                    | DE            |

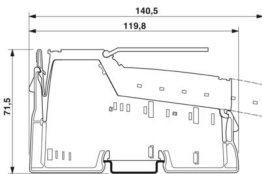
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## Technical data

### Dimensions

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

### Notes

|                         |                                                               |
|-------------------------|---------------------------------------------------------------|
| Utilization restriction |                                                               |
| CCCex note              | Use in potentially explosive areas is not permitted in China. |

### Interfaces

|                      |                    |
|----------------------|--------------------|
| Inline local bus     |                    |
| Number of interfaces | 2                  |
| Connection method    | Inline data jumper |
| Transmission speed   | 500 kbps / 2 Mbps  |

### System properties

|                             |        |
|-----------------------------|--------|
| Module                      |        |
| ID code (dec.)              | none   |
| ID code (hex)               | none   |
| Register length             | 0 Byte |
| Required parameter data     | 0 Byte |
| Required configuration data | 0 Byte |

### Product properties

|                    |                     |
|--------------------|---------------------|
| Type               | modular             |
| Product type       | I/O component       |
| Product family     | Inline              |
| Number of plugs    | 1                   |
| Special properties | 24 V DC             |
|                    | $U_M, U_S$          |
|                    | With fuse ( $U_M$ ) |

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

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## Electrical properties

|                    |                                                                                 |
|--------------------|---------------------------------------------------------------------------------|
| Test section       | 5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min. |
|                    | 5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min. |
|                    | 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.                     |
| Protective circuit | Polarity protection, surge protection                                           |
|                    | Overload protection; Fuse                                                       |
| Fuse               | SI 5 x 20 6, 300 AT (in scope of delivery)                                      |

### Supply

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| I/O voltage              | 24 V DC                                                            |
| I/O voltage range        | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Residual ripple          | ± 1.2 V                                                            |
| Max. current consumption | 6 A (8 A)                                                          |

### 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) |

### Potentials: Segment circuit supply ( $U_S$ )

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| Supply voltage       | 24 V DC (via Inline connector)                                     |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |

## Connection data

### Connection technology

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

### Conductor connection

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

### Inline connector

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

## Environmental and real-life conditions

### Ambient conditions

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|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP20             |
| Ambient temperature (operation) | -25 °C ... 55 °C |

## Mounting

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

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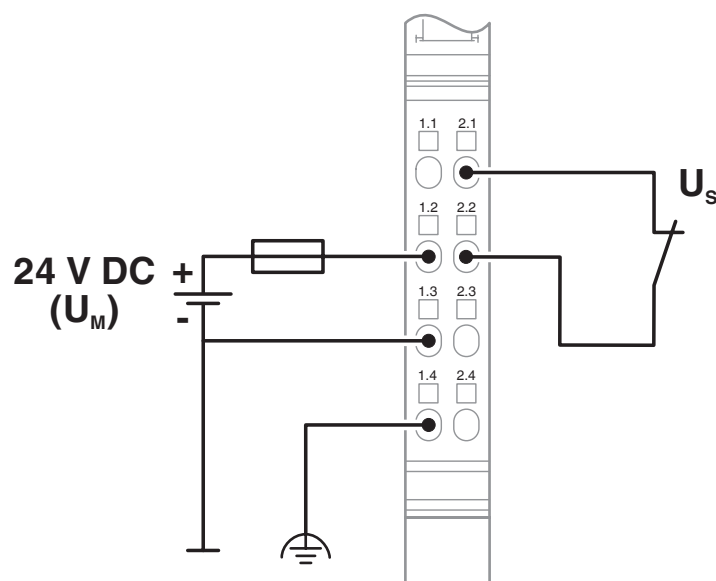
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## Drawings

Dimensional drawing



Connection diagram



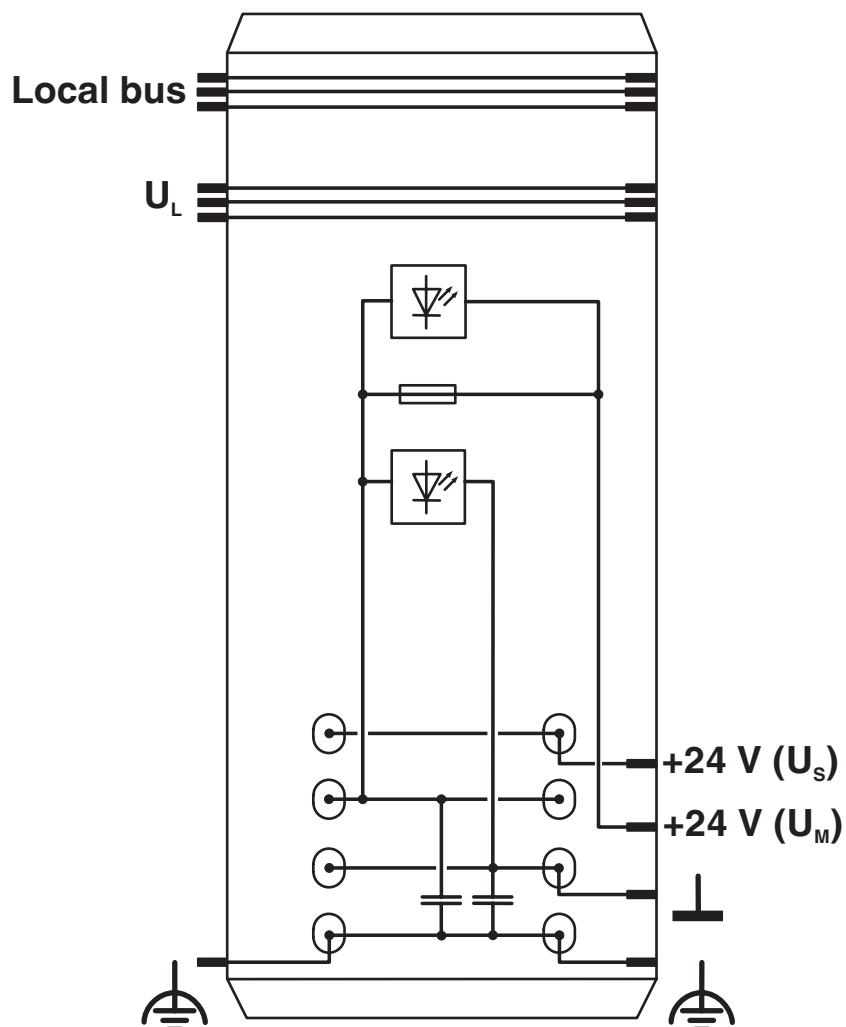
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Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/it/products/2861438>



**UL Recognized**  
Approval ID: FILE E 140324



**EAC**  
Approval ID: TR TS\_D\_01921-19

**UAE-RoHS**  
Approval ID: 22-04-13090



**cUL Listed**  
Approval ID: FILE E 199827



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27242610 |
| ECLASS-12.0 | 27242610 |
| ECLASS-13.0 | 27242610 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001600 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                               |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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