

IBS IL 24 BK RB LK-2MBD-PAC - Bus coupler



2862026

<https://www.phoenixcontact.com/us/products/2862026>

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INTERBUS bus coupler, with fiber optic connection, 24 V DC, transmission speed 2 Mbaud, complete with accessories (plug and labeling field)

Product description

Inline terminals with "2 MBD" added to their item designation work with a transmission speed of 2 Mbps. These terminal blocks are discontinued or no longer in the range. If you require this transmission speed, please ask your local Phoenix Contact representative. If you can work with a transmission speed of 500 kbps, select as a replacement the corresponding variant that does not have "2MBD" added to its item designation. Please note that a uniform transmission speed must always be used within one inline station.

Your advantages

- Remote bus connections using fiber optic technology
- Optical path diagnostics

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2862026 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DR01 |
| Product key | DRI111 |
| GTIN | 4017918974664 |
| Weight per piece (including packing) | 320.7 g |
| Weight per piece (excluding packing) | 235 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

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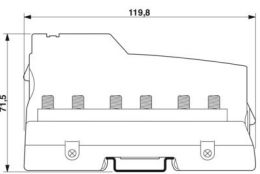


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Technical data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 85 mm |
| Height | 119.8 mm |
| Depth | 71.5 mm |

Notes

Utilization restriction

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

Material specifications

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

Interfaces

INTERBUS

| | |
|----------------------|-----------------|
| No. of channels | 3 |
| Connection method | F-SMA connector |
| Number of positions | 2 |
| Transmission speed | 2 Mbps |
| Transmission physics | FO |

Inline local bus

| | |
|----------------------|--------------------|
| Connection method | Inline data jumper |
| Transmission physics | Copper |

System properties

System limits

| | |
|---|---------|
| Number of local bus devices that can be connected | 63 |
| Number of devices with parameter channel | 62 |
| Number of supported branch terminals with remote bus branch | max. 15 |

Programming data

| | |
|-------------------|----|
| Length code (hex) | 0 |
| ID code (dec.) | 12 |
| Length code (dec) | 0 |

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2862026

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| | |
|--------------------------|----------|
| Process data channel | 0 bit |
| Input address area | 0 Byte |
| Parameter channel (PCP) | 0 Byte |
| Register length (bus) | 0 bit |
| Register length (master) | 8192 bit |

Product properties

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

Electrical properties

| | |
|---|-----------------------------|
| Maximum power dissipation for nominal condition | 31.2 W |
| Protective circuit | Reverse polarity protection |

Potentials: Bus coupler supply U_{BK} ; Communications power U_L (7.5 V) and the analog supply U_{ANA} (24 V) are generated from the bus coupler supply.

| | |
|----------------------|--|
| Supply voltage | 24 V DC (via Inline connector) |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Current draw | max. 1.3 A (with max. number of connected I/O terminal blocks) typ. 120 mA (without connected Inline I/O terminals) |

Potentials: Communications power (U_L)

| | |
|----------------|--------------------------------|
| Supply voltage | 7.5 V DC \pm 5 % |
| Power supply | max. 2 A DC (observe derating) |

Potentials: Supply of analog modules (U_{ANA})

| | |
|----------------------|--|
| Supply voltage | 24 V DC |
| Supply voltage range | 19.2 V DC ... 30 V DC (including all tolerances, including ripple) |
| Power supply | max. 0.5 A DC (observe derating) |

Electrical isolation/isolation of the voltage ranges

| | |
|---|------------------------|
| Test voltage: 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply/functional ground | 500 V AC, 50 Hz, 1 min |
|---|------------------------|

Connection data

Connection technology

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

Inline connector

| | |
|-----------------------------------|--|
| Connection method | Spring-cage connection |
| Conductor cross-section, rigid | 0.09 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible | 0.09 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 28 ... 16 |
| Stripping length | 8 mm |

Environmental and real-life conditions

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Ambient conditions

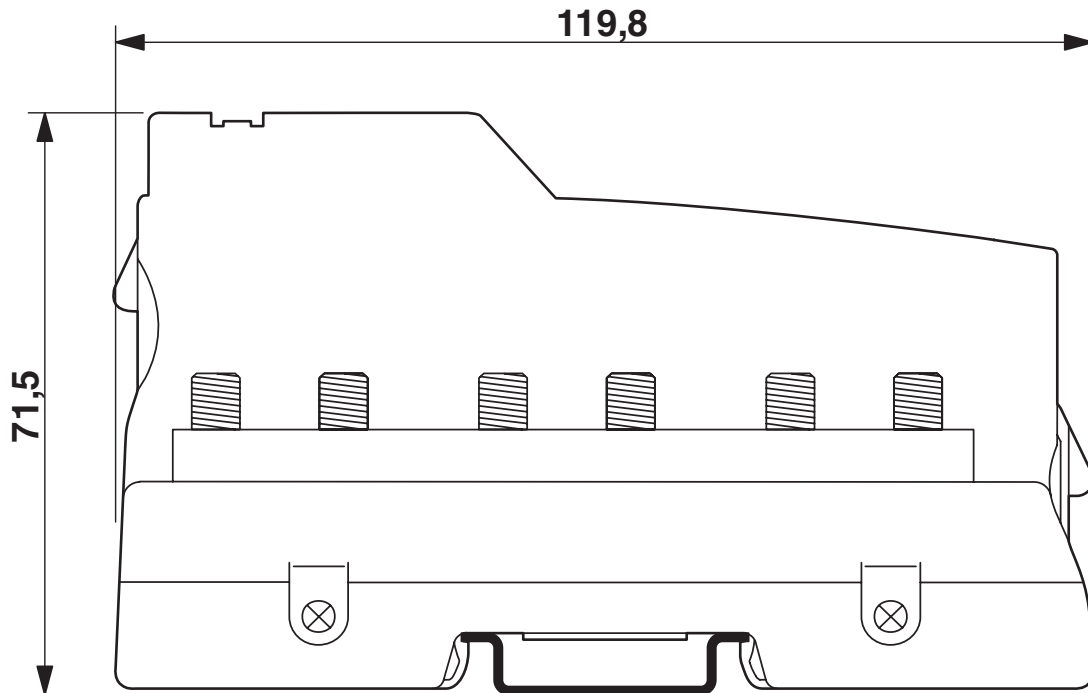
| | |
|--|---|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Degree of protection | IP20 |
| Air pressure (operation) | 80 kPa ... 106 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| Permissible humidity (operation) | 75 % ... 85 % |
| Permissible humidity (storage/transport) | 75 % ... 85 % |

Mounting

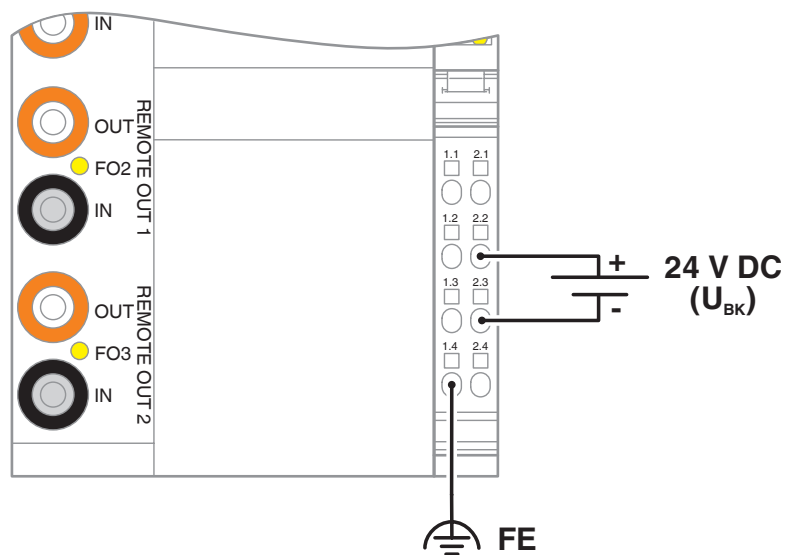
| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

Drawings

Dimensional drawing



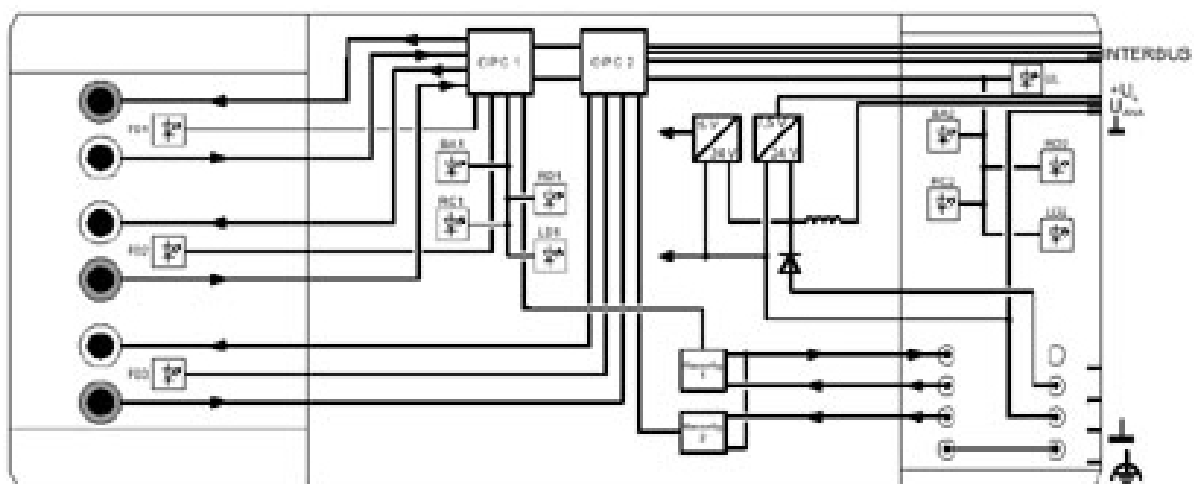
Connection diagram



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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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