

# 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

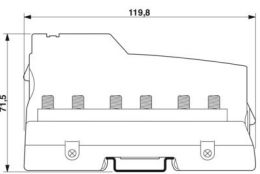
- Remote bus connections using fiber optic technology
- Optical path diagnostics

## 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

## 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
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### Material specifications

Color	green
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### 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

#### Module

ID code (dec.)	12
ID code (hex)	0C
Length code (hex)	0

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Length code (dec)	0
Process data channel	0 bit
Input address area	0 Byte
Register length	0 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
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## Connection data

Connection technology

Connection name	Inline connector
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Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.09 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.09 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

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## Ambient conditions

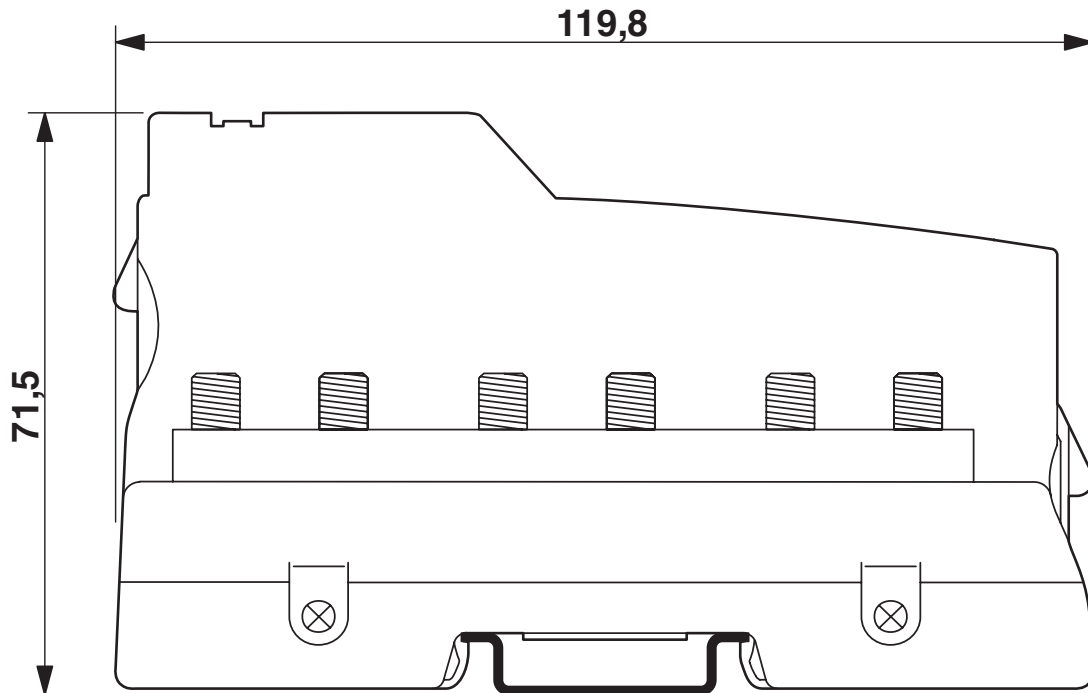
Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	80 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible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

## Mounting

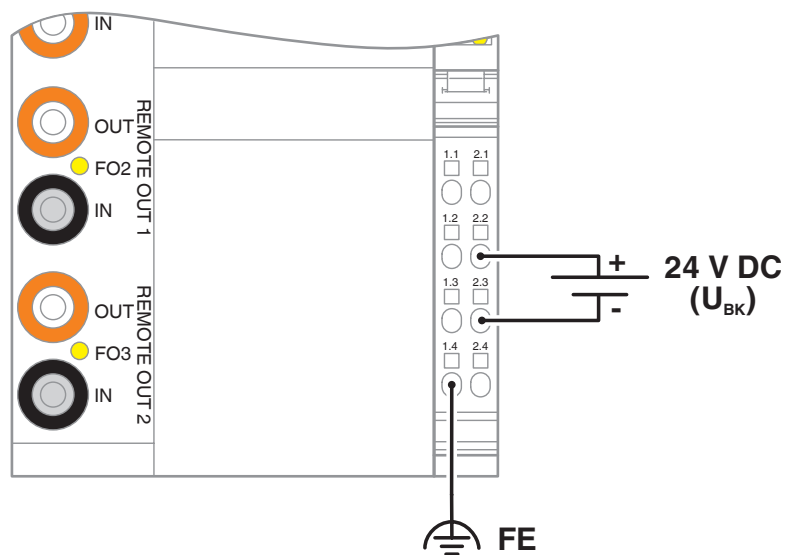
Mounting type	DIN rail mounting
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## Drawings

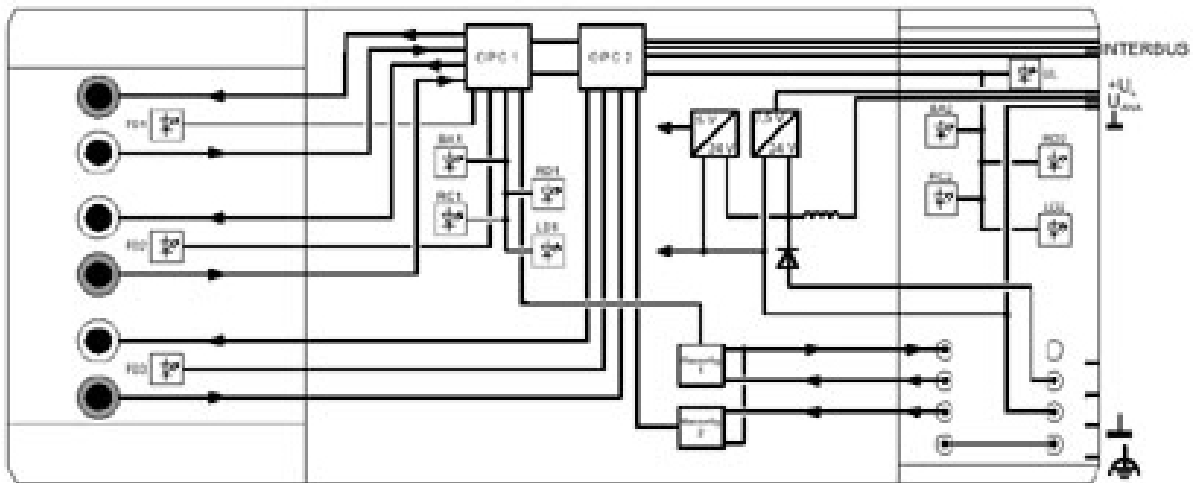
Dimensional drawing



Connection diagram



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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