

# IBS RL 24 BK RB-T-T - Bus coupler



2731063

<https://www.phoenixcontact.com/us/products/2731063>

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Bus coupler with remote bus branch for INTERBUS; twisted pair with 500 kBaud, rugged metal housing with IP67 degree of protection, tool-free mounting on a separate mounting panel, can be used directly on welding robots



The figure shows version IBS RL 24 BK RB-LK-LK

## Product description

INTERBUS Ruggedline modules are provided for harsh ambient conditions or in the case of high requirements regarding system diagnostics. To ensure maximum availability, these modules are equipped with a zinc die-cast housing (IP67). This means they can even be mounted in the immediate vicinity of welding tongs, for example. Each Ruggedline module consists of a mounting panel and electronics module. The electronics module is snapped onto the mounting panel and fastened with two screws, if necessary. Peripheral faults can be clearly localized using the extended diagnostics. Short circuits in the sensor supply are signaled in groups of four inputs each, for example. And, in the case of a short circuit at an output, the respective output is even displayed directly. This information is made available to the controller as well as displayed on the module. For the modules with a fiber-optic connection, the diagnostic capability goes one step further. D

## Your advantages

- Rugged metal housing
- Comprehensive diagnostic functions
- M12 connector for I/O devices
- Rugged Line connector for INTERBUS, either with fiber optic or twisted pair, and supply voltage

## Commercial data

Item number	2731063
Packing unit	1 pc
Sales key	DR03
Product key	DRI511
GTIN	4017918185640
Weight per piece (including packing)	780 g
Weight per piece (excluding packing)	610 g
Customs tariff number	85176200
Country of origin	DE

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## Technical data

### Dimensions

Width	179 mm
Height	67 mm
Depth	71 mm
Note on dimensions	with bus connection plugs and mounting panel

### Interfaces

#### INTERBUS

Connection method	Copper via IP67 RL connectors
Transmission speed	500 kbps

### System properties

#### Programming data

Length code (hex)	0
ID code (dec.)	0C
Length code (dec)	0
Process data channel	0 bit
Input address area	0 Byte
Output address area	0 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	0 bit

### Input data

#### Digital:

Connection technology	QUICKON connection
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### Product properties

Product type	I/O component
Product family	Ruggedline
Type	Block design

### Electrical properties

#### Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 32 V DC (including ripple)
Ripple	Max 3.6 V <sub>SS</sub> within the permissible voltage range

### Connection data

Connection method	QUICKON fast connection
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Degree of protection	IP65/IP67
Air pressure (operation)	860 hPa ... 1080 hPa (up to 1500 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	100 %
Permissible humidity (storage/transport)	95 % (non-condensing)

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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### Air clearances and creepage distances

Air clearances and creepage distances	in accordance with EN 50178: 1998
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## Mounting

Mounting type	on mounting panel
	Panel mounting

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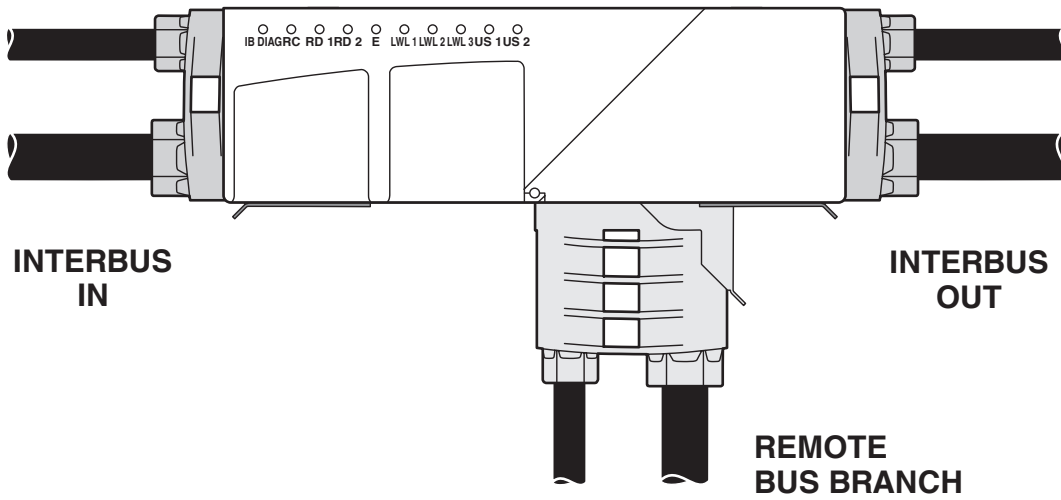


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## Drawings

Connection diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-I, 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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