

# IBS RL 24 BK RB-LK-LK-2MBD - Bus coupler



2731597

<https://www.phoenixcontact.com/us/products/2731597>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Bus coupler with remote branch for INTERBUS; fiber-optic technology with 2 Mbaud, 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

## 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	2731597
Packing unit	1 pc
Sales key	DR03
Product key	DRI511
GTIN	4017918185732
Weight per piece (including packing)	778.1 g
Weight per piece (excluding packing)	610 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Dimensions

Width	179 mm
Height	67 mm
Depth	71 mm

### Interfaces

#### INTERBUS

Connection method	IP67-RL connector with FO connection
Transmission speed	2 Mbps

### 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

### 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	Fiber optic
-------------------	-------------

### 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)

# IBS RL 24 BK RB-LK-LK-2MBD - Bus coupler



2731597

<https://www.phoenixcontact.com/us/products/2731597>

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)
------------------	---------------------------------------

### Air clearances and creepage distances

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

## Mounting

Mounting type	on mounting panel
	Panel mounting

# IBS RL 24 BK RB-LK-LK-2MBD - Bus coupler

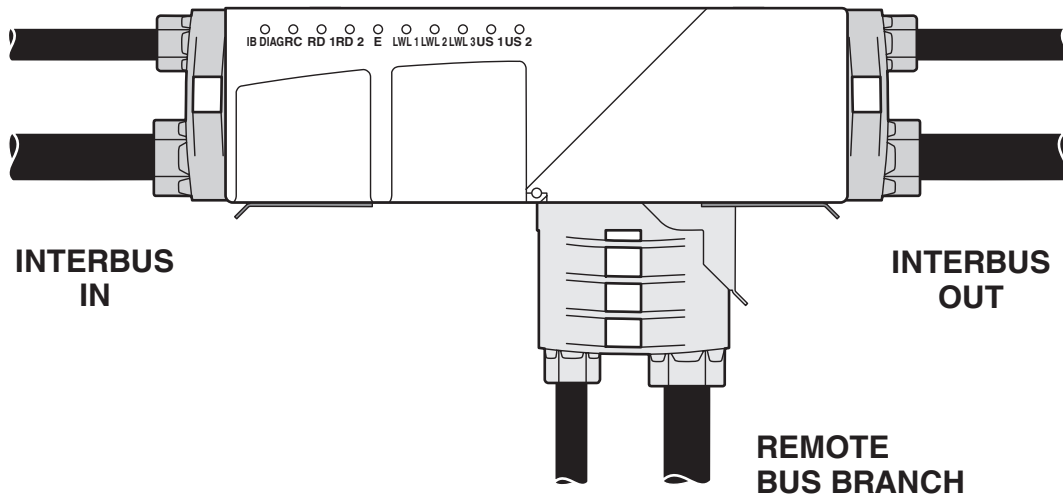


2731597

<https://www.phoenixcontact.com/us/products/2731597>

## Drawings

Connection diagram



# IBS RL 24 BK RB-LK-LK-2MBD - Bus coupler



2731597

<https://www.phoenixcontact.com/us/products/2731597>

## Classifications

### UNSPSC

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

2731597

<https://www.phoenixcontact.com/us/products/2731597>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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)
-------------------------------------	----------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)