

IBS RL 24 BK RB-LK-LK - Bus coupler



2725024

<https://www.phoenixcontact.com/us/products/2725024>

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Bus coupler with remote bus branch for INTERBUS; fiber-optic technology 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



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

Commercial data

Item number	2725024
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR03
Product key	DRI511
Catalog page	Page 203 (C-6-2019)
GTIN	4017918185435
Weight per piece (including packing)	782.8 g
Weight per piece (excluding packing)	782.8 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	Fiber optics via IP67 RL connectors
Transmission speed	500 kbps

System properties

Module

ID code (dec.)	0C
ID code (hex)	12
Length code (hex)	0
Length code (dec)	0
Process data channel	0 bit
Input address area	0 Byte
Output address area	0 Byte
Register length	0 bit

Input data

Digital

Connection technology	QUICKON connection
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Product properties

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

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 _{SS} 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
	Wall mounting

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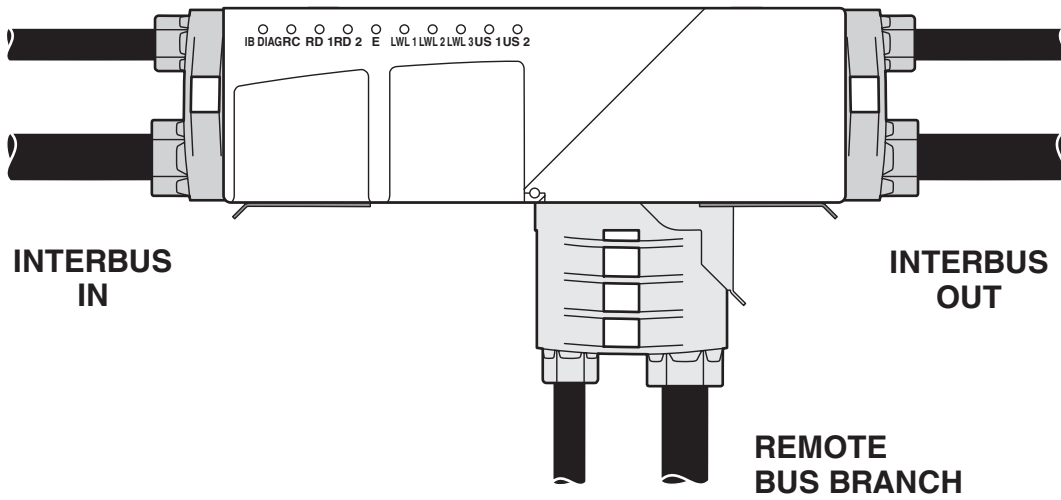


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Drawings

Connection diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2725024>

 cUL Recognized Approval ID: FILE E 140324				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	24 V	0.12 A	-	-

 UL Recognized Approval ID: FILE E 140324				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	24 V	0.12 A	-	-

INTERBUS CLUB Approval ID: 365/23.11.01				
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cULus Recognized				
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Classifications

ECLASS

ECLASS-11.0

27242608

ETIM

ETIM 8.0

EC001604

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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Accessories

IBS RL PLUG-LK/POF - Bus connector

2731076

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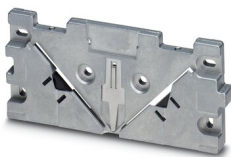


Connector for the fiber optic bus with polymer fiber cable and for the power supply with QUICKON connection method

IBS RL AP - Lower mounting part

2731128

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Mounting panel for Ruggedline devices

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IBS RL MARKER-SET - Marking label

2732729

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Set of 50 small and 50 large metal marking labels



PSM-LWL-RUGGED-980/1000 - FO cable

2744322

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Polymer fiber cable, duplex 980µm/1000µm, heavy-weight version for installation in stationary systems and machines, by the meter without male connector

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PSM-LWL-RUGGED-FLEX-980/1000 - FO cable

2744335

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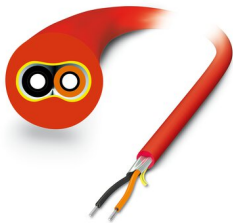


Polymer fiber cable, duplex 980/1000 μm , heavy-weight, highly flexible version for flexible conduit applications, by the meter, without connector

PSM-LWL-KDHEAVY-980/1000 - FO cable

2744319

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Polymer fiber cable, duplex 980 μm /1000 μm , medium-weight version for installation in stationary systems and machines, by the meter without male connector

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IBS RL CONNECTION-LK - Cable set

2733029

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Assembled cable jumper as a short connection between two INTERBUS Rugged Line devices with fiber optic bus connectors and power supply, approximately 30 cm



IBS PWR/5HD/F - Cable

2731775

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Power supply cable, gray, welding-splash-resistant in standard applications, 5 x 1.5 mm², highly flexible, sold by the meter



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IBS PWR/5 - Cable

2820000

<https://www.phoenixcontact.com/us/products/2820000>



Power supply cable, gray, welding-splash-resistant in standard applications, 5 x 1.5 mm², sold by the meter

IBS RL 24 ADAP-LK/T - Adapter set

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INTERBUS Rugged Line adapter for converting the fiber optic remote bus to a copper wire remote bus

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IBS RL 24 ADAP-T/LK - Adapter set

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INTERBUS Rugged Line adapter for converting the copper wire remote bus to a fiber optic remote bus

IBS OPTOSUB-MA/M/R-LK-OPC - FO converters

2732635

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INTERBUS fiber optic converter for converting the remote OUT interface to fiber optics, correction of the optical transmission capacity, FO output right

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IBS RL PLUG-LK/POF-F - Bus connector

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Connector for the fiber optic bus with polymer fiber cable and for the power supply with spring-cage connection method

SAC-3P-M12Y/2XM12FS PE - Y distributor

1683455

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Y distributor, 4-position, unshielded, Plug straight M12, coding: A, on Socket straight M12, coding: A and Socket straight M12, coding: A

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IBS CCO-R/L - Connector set

2759883

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M23 solder connection for bus connector set, male/female connector, 9-pos.
(8+1)



IBS CCO-PSF/L - Connector set

2780878

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M23 power supply connector, female connector, 6-pos.



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IBS CCO-PSM/L - Connector set

2759906

<https://www.phoenixcontact.com/us/products/2759906>

M23 power supply connector, male connector, 6-pos.



IBS RL CABLE POF/ - Cable set

2819956

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Assembled cable sets with fiber optic bus connectors, sold by the meter



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IBS RL PROT-LK - Transport protection

2819969

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Transport protection for optic fiber bus connection



IBS RL MARKER-G-SET - Marking label

2734727

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100 large metal marking labels



IBS RL MARKER-K-SET - Marking label

2734730

<https://www.phoenixcontact.com/us/products/2734730>

100 small metal marking labels



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IBS RL FOC - Fiber cutter

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Fiber cutter for assembling polymer fiber cables for connecting INTERBUS Ruggedline devices

PSM-FO-POWERMETER - Measuring instrument

2799539

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Fiber optic measuring case, consisting of an optical power meter, F-SMA, B-FOC adapters, reference fibers and operating instructions

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PSM-POF-KONFTOOL - Assembly tool

2744131

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Polymer fiber DIY case, consisting of: Stripping knife, stripping pliers, polishing wheels for F-SMA and SC-RJ quick mounting connectors, polishing pad and emery paper

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