

# IBS RL 24 OC-LK - Monitoring block

2819972

<https://www.phoenixcontact.com/us/products/2819972>

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Repeater for signal monitoring and amplification for INTERBUS; fiber optic technology with 500 kbaud, divides the system into segments and enables individual branches to be switched off during operation



## 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	2819972
Packing unit	1 pc
Sales key	DR03
Product key	DRI516
GTIN	4017918188658
Weight per piece (including packing)	713.8 g
Weight per piece (excluding packing)	640 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Dimensions

Width	127 mm
Height	67 mm
Depth	71 mm

### Interfaces

#### INTERBUS

Connection method	IP67-RL connector with FO connection
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

### 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	M12 connector
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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)

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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

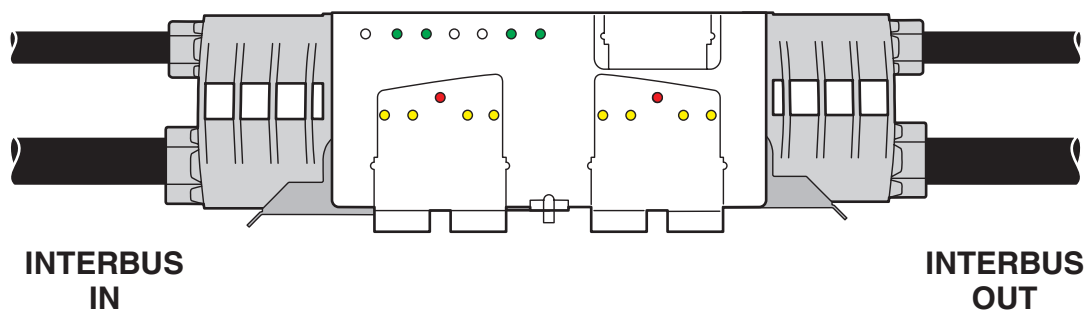
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## Drawings

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-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)