

Monitoring module - IBS RL 24 OC-LK-2MBD - 2732499

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Repeater for signal monitoring and amplification for INTERBUS; fiber optic technology with 2 Mbaud, divides the system into segments and enables individual branches to be switched off during operation

The figure shows version IBS RL 24
OC-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



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 187095 |
| GTIN | 4017918187095 |
| Weight per Piece (excluding packing) | 700.000 g |
| Custom tariff number | 85176200 |
| Country of origin | Germany |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| | |
|-------|--------|
| Width | 127 mm |
|-------|--------|

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Technical data

Dimensions

| | |
|--------|-------|
| Height | 67 mm |
| Depth | 71 mm |

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | 0 °C ... 55 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Permissible humidity (operation) | 100 % |
| Permissible humidity (storage/transport) | 95 % (non-condensing) |
| 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) |
| Degree of protection | IP65/IP67 |

General

| | |
|---------------|-------------------|
| Mounting type | Wall mounting |
| Net weight | 640 g |
| Mounting type | on mounting plate |

Interfaces

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

Power supply for 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 |

Standards and Regulations

| | |
|---------------------------------------|--------------------------------------|
| Air clearances and creepage distances | according to EN 50178: 1998 |
| Connection in acc. with standard | CUL |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |

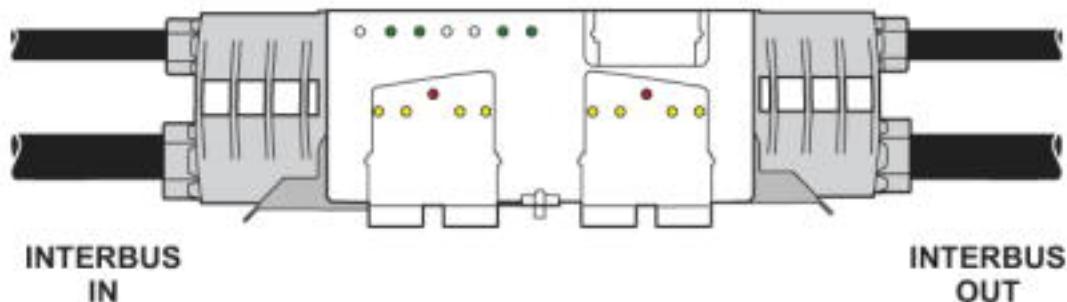
Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

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Connection diagram



Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250300 |
| eCl@ss 4.1 | 27250300 |
| eCl@ss 5.0 | 27250300 |
| eCl@ss 5.1 | 27242600 |
| eCl@ss 6.0 | 27242600 |
| eCl@ss 7.0 | 27242608 |
| eCl@ss 8.0 | 27242608 |
| eCl@ss 9.0 | 27242608 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001433 |
| ETIM 3.0 | EC001601 |
| ETIM 4.0 | EC001601 |
| ETIM 5.0 | EC001604 |
| ETIM 6.0 | EC001604 |
| ETIM 7.0 | EC001604 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 32151602 |

Approvals

Approvals

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Approvals

Approvals

UL Recognized / cUL Recognized / INTERBUS CLUB / cULus Recognized

Ex Approvals

Approval details

| | | | |
|--------------------|---|---|---------------|
| UL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
| Nominal voltage UN | | 24 V | |
| Nominal current IN | | 0.08 A | |

| | | | |
|--------------------|---|---|---------------|
| cUL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
| Nominal voltage UN | | 24 V | |
| Nominal current IN | | 0.08 A | |

| | |
|---------------|--------------|
| INTERBUS CLUB | 371/25.03.02 |
|---------------|--------------|

| | |
|------------------|---|
| cULus Recognized |  |
|------------------|---|

Accessories

Accessories

Adapter cable

Cable set - IBS RL CABLE POF/ - 2819956



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

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Accessories

Assembly element

Lower mounting part - IBS RL AP - 2731128



Mounting plate for Ruggedline devices

Assembly tool

Fiber cutter - IBS RL FOC - 2725147



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

Bridge

Cable set - IBS RL CONNECTION-LK - 2733029



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

Cable by the meter

Cable - IBS PWR/5HD/F - 2731775



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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Accessories

Cable - IBS PWR/5 - 2820000



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

Connector set

Connector set - IBS CCO-R/L - 2759883



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

Data cable by the meter

FO cable - PSM-LWL-RUGGED-980/1000 - 2744322



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

FO cable - PSM-LWL-RUGGED-FLEX-980/1000 - 2744335



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

FO cable - PSM-LWL-KDHEAVY-980/1000 - 2744319



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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Accessories

Labeling panel

Marking label - IBS RL MARKER-SET - 2732729



Set of 50 small and 50 large metal marking labels

Marking label - IBS RL MARKER-G-SET - 2734727



100 large metal marking labels

Marking label - IBS RL MARKER-K-SET - 2734730



100 small metal marking labels

Media converter

FO converters - IBS OPTOSUB-MA/M/R-LK-OPC - 2732635



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

Plug

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Accessories

Bus connector - IBS RL PLUG-LK/POF - 2731076



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

Adapter set - IBS RL 24 ADAP-LK/T - 2725040



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

Adapter set - IBS RL 24 ADAP-T/LK - 2725037



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

Bus connector - IBS RL PLUG-LK/POF-F - 2734183



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

Connector set - IBS CCO-PSF/L - 2780878



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

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Accessories

Connector set - IBS CCO-PSM/L - 2759906



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

Protective cap

Transport protection - IBS RL PROT-LK - 2819969



Transport protection for optic fiber bus connection

Y-distributor

Y distributor - SAC-3P-M12Y/2XM12FS PE - 1683455



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

User manual - IBS RL SYS PRO UM - 2743705



User manual, German, for configuring and installing the Rugged Line product range, only available as a download.

Measuring instrument - PSM-FO-POWERMETER - 2799539



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

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Accessories

Assembly tool - PSM-POF-KONFTOOL - 2744131



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
