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Distributed I/O device - IBS RL 24 DIO 8/5-RS-LK-2MBD - 2734905

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Digital I/O device for INTERBUS; fiber optic technology with 2 Mbaud, eight inputs (24 V DC), five relay outputs (12 V AC to 440 V AC; 2 A, maximum), sensor connection via 5-pos. M12 female connectors, rugged metal housing, IP67 protection

Product Features

- Rugged metal housing
- Comprehensive diagnostic functions
- Rugged Line connector for INTERBUS with fiber optic and supply voltage
- COMBICON connector for relay outputs
- M12 connector for digital inputs

INTERBUS

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	4037.0 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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

Dimensions

Width	185 mm
Height	193 mm
Depth	138 mm
Note on dimensions	With bus connectors and mounting plate

Ambient conditions

Distributed I/O device - IBS RL 24 DIO 8/5-RS-LK-2MBD - 2734905

Technical data

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °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 mean sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above mean sea level)
Degree of protection	IP65/IP67

General

Mounting type	Wall mounting
Net weight	3500 g
Note	Seal unused slots/connections to ensure the degree of protection.

Interfaces

Fieldbus system	INTERBUS
Designation	INTERBUS
Connection method	Optic fiber (polymer fiber 980/1000 µm)
Transmission speed	2 MBit/s
Transmission physics	FO

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
Supply current	typ. 120 mA (plus sensor current)
Communications power U_L	24 V DC
Current consumption	80 mA (plus sensor current)

Digital inputs

Input name	Digital inputs
Description of the input	Voltage input 230 V AC to 400 V AC
Connection method	2, 3, 4-wire
Number of inputs	8
Protective circuit	Electronic short-circuit/overload protection
Input voltage	24 V
	230 V (1 signal 230 V AC to 400 V AC)
Input voltage range "0" signal	-30 V ... 5 V
Input voltage range "1" signal	15 V ... 32 V
Delay at signal change from 0 to 1	2.2 ms

Distributed I/O device - IBS RL 24 DIO 8/5-RS-LK-2MBD - 2734905

Technical data

Digital inputs

Delay at signal change from 1 to 0	3.3 ms

Digital outputs

Output name	Relay output
Number of outputs	5
Maximum output current per channel	2 A

Standards and Regulations

Test section	Between US1 and US2 500 V AC 50 Hz 1 min.
	Between US1 and functional earth ground 500 V AC 50 Hz 1 min.
	Between US2 and functional earth ground 500 V AC 50 Hz 1 min.
	Between US1 and relay contacts 2.5 kV 50 Hz 1 min.
	Between US2 and relay contacts 2.5 kV 50 Hz 1 min.
	Between relay contacts and functional earth ground 2.5 kV 50 Hz 1 min.
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Classifications

eCl@ss

eCl@ss 4.0	27250304
eCl@ss 4.1	27250304
eCl@ss 5.0	27250304
eCl@ss 5.1	27242604
eCl@ss 6.0	27242605
eCl@ss 7.0	27242605
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001601
ETIM 4.0	EC001601
ETIM 5.0	EC001599

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404

Distributed I/O device - IBS RL 24 DIO 8/5-RS-LK-2MBD - 2734905

Classifications

UNSPSC

UNSPSC 13.2	43201404

Accessories

Accessories

Assembly element

Lower mounting part - IBS RL AP - 2731128

Mounting plate for 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

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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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Cable - IBS PWR/5 - 2820000

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

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Accessories

Circular connector (cable-side)

Sensor/actuator connector - SACC-M12MS-4QO-0,75 - 1641769

Sensor/actuator connector, 4-position, Plug straight M12, A-coded, Insulation displacement connection, Knurl material: Plastic, External cable diameter 4 mm ... 8 mm

Connector set

Connector set - IBS RL PLSET DIO 8/5-RS-LK - 2737452

Connector set, connector and Pg screw connection for IBS RL 24 DIO 8/5-RS-LK INTERBUS Ruggedline relay module

Data cable by the meter

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

Polymer fiber cable, duplex, 980 μm/1000 μm, heavy version for permanent indoor installation, sold by the meter without connectors

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

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Accessories

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

Polymer fiber cable, duplex 980/1000 µm, medium-weight version for permanent indoor installation, by the meter, without connector

Labeling panel

Marking label - IBS RL MARKER-SET - 2732729

Set of 50 small and 50 large 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

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

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Accessories

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

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.

Mouser Electronics

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