

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



2731733

<https://www.phoenixcontact.com/us/products/2731733>

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The figure shows version IBS RL 24 DIO 8/8/8 RS-LK

Digital I/O device for INTERBUS; fiber optic technology with 2 Mbaud, eight inputs (24 V DC), eight relay outputs (12 V AC to 250 V AC; 2 A, maximum), sensor connection via 5-pos. M12 female connectors, rugged metal housing, IP67 protection

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

Commercial data

Item number	2731733
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI517
GTIN	4017918901813
Weight per piece (including packing)	3,981 g
Weight per piece (excluding packing)	3,500 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Dimensions

Width	185 mm
Height	193 mm
Depth	138 mm
Note on dimensions	with bus connection plugs and mounting panel

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Interfaces

INTERBUS

Connection method	Optic fiber (polymer fiber 980/1000 µm)
Transmission speed	2 Mbps
Transmission physics	FO

System properties

Programming data

Length code (hex)	09
ID code (dec.)	3
Length code (dec)	9
Process data channel	8 bit
Input address area	1 Byte
Output address area	1 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	1 Byte

Input data

Digital:

Input name	Digital inputs
Number of inputs	8
Connection technology	2-, 3-, 4-conductor
Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	11 V DC ... 30 V DC
Typical input current per channel	5.7 mA
Delay at signal change from 0 to 1	2.2 ms
Delay at signal change from 1 to 0	3.3 ms
Protective circuit	Electronic short-circuit/overload protection

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Output data

Digital:

Output name	Relay output
Number of outputs	8
Maximum operating frequency with ohmic nominal load	10 Hz

Product properties

Product type	I/O component
Product family	Ruggedline
Type	Block design
No. of channels	16

Electrical properties

Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 32 V DC (including ripple)
Supply current	typ. 120 mA (plus sensor current)
Ripple	Max 3.6 V _{SS} within the permissible voltage range

Connection data

Connection method	Fiber optic
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
Degree of protection	IP65/IP67
Note	Seal unused slots/connections to ensure the degree of protection.
Air pressure (operation)	860 hPa ... 1080 hPa (up to 1500 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 kPa (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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Mounting

Mounting type	Panel mounting
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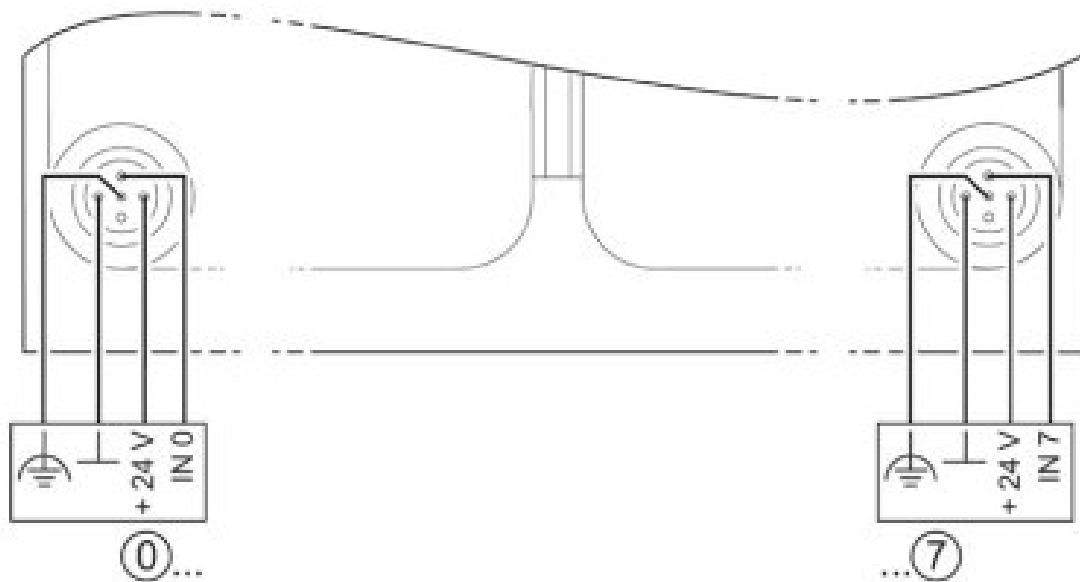
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Drawings

Connection diagram



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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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