

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



2734905

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

## Your advantages

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

## Commercial data

Item number	2734905
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI517
GTIN	4017918948351
Weight per piece (including packing)	4,037 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
Description of the input	Voltage input 230 V AC to 400 V AC
Number of inputs	8
Connection technology	2-, 3-, 4-conductor
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
Delay at signal change from 1 to 0	3.3 ms

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Protective circuit	Electronic short-circuit/overload protection
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## Output data

Digital:

Output name	Relay output
Number of outputs	5
Maximum output current per channel	2 A
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	13

## 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 <sub>SS</sub> within the permissible voltage range

Electrical isolation/isolation of the voltage ranges

Test voltage: Between US1 and US2	500 V AC, 50 Hz, 1 min
Test voltage: Between US1 and the functional ground	500 V AC, 50 Hz, 1 min
Test voltage: Between US2 and the functional ground	500 V AC, 50 Hz, 1 min
Test voltage: Between US1 and relay contacts	2.5 kV, 50 Hz, 1 min
Test voltage: Between US2 and relay contacts	2.5 kV, 50 Hz, 1 min
Test voltage: Between relay contacts and the functional ground	2.5 kV, 50 Hz, 1 min

## Connection data

Connection method	Fiber optic
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## Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	0 °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 hPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	100 %
Permissible humidity (storage/transport)	95 % (non-condensing)

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## Standards and regulations

Protection class

III (IEC 61140, EN 61140, VDE 0140-1)

## Mounting

Mounting type

Panel mounting

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## Environmental product compliance

EU REACH SVHC

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