

# IBS RL 24 DI 16/8-LK-2MBD - Distributed I/O device



2731584

<https://www.phoenixcontact.com/us/products/2731584>

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Digital input device for INTERBUS; fiber optic technology with 2 Mbaud, 16 inputs (24 V DC), sensor connection via 5-pos. M12 female connectors, rugged metal housing, IP67 protection



The figure shows version IBS RL 24  
DI 16/8-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

## Commercial data

Item number	2731584
Packing unit	1 pc
Sales key	DR03
Product key	DRI513
GTIN	4017918185718
Weight per piece (including packing)	838.3 g
Weight per piece (excluding packing)	720 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Dimensions

Width	179 mm
Height	67 mm
Depth	71 mm
Note on dimensions	with bus connection plugs and mounting panel

### Interfaces

#### INTERBUS

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

### Input data

#### Digital:

Input name	Digital inputs
Number of inputs	16
Connection technology	2-, 3-, 4-conductor
Input voltage range "0" signal	0 V AC ... 5 V AC
Input voltage range "1" signal	11 V AC ... 32 V AC
Typical input current per channel	3 mA
Protective circuit	Electronic short-circuit/overload protection for each group

### 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 AC ... 32 V AC (including ripple)
Ripple	Max 3.6 V <sub>SS</sub> 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)	0 °C ... 55 °C
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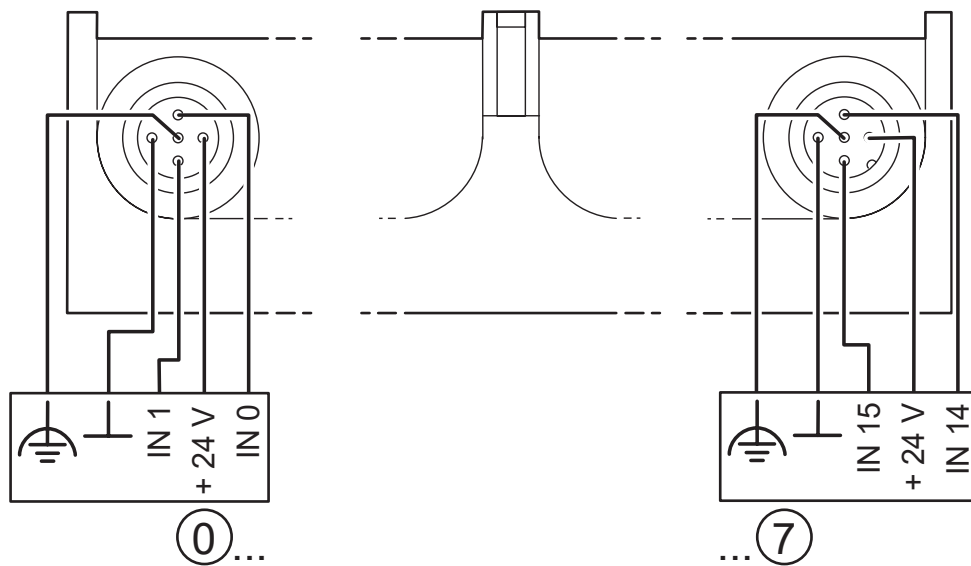
Degree of protection	IP65/IP67
Note	Seal unused slots/connections to ensure the degree of protection.
Air pressure (operation)	860 hPa ... 1080 hPa (up to 1500 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	100 %
Permissible humidity (storage/transport)	95 % (non-condensing)

## Mounting

Mounting type	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-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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