

# 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



## 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 |
|-------------------|-------------|

### Environmental and real-life conditions

#### Ambient conditions

|                                 |                |
|---------------------------------|----------------|
| Ambient temperature (operation) | 0 °C ... 55 °C |
|---------------------------------|----------------|

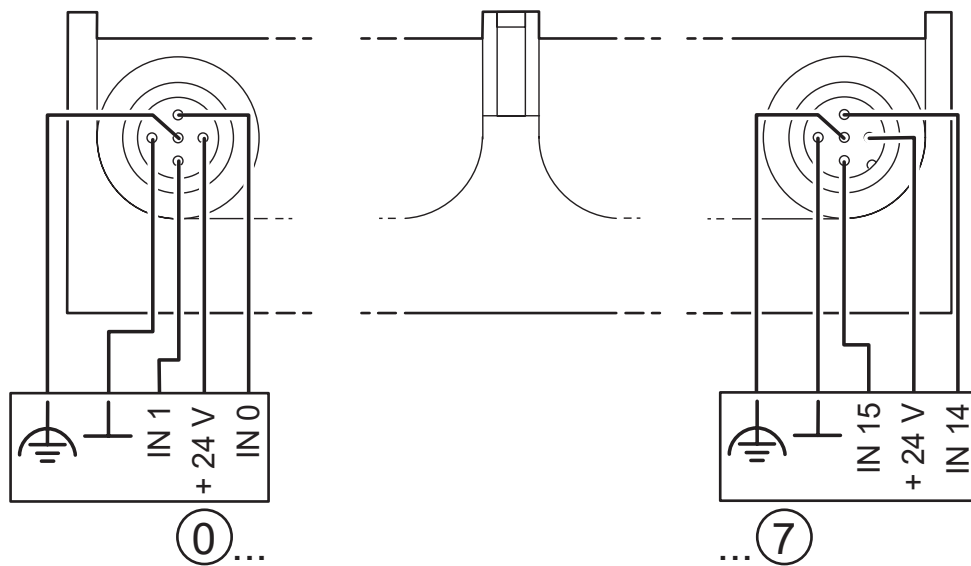
|                                          |                                                                   |
|------------------------------------------|-------------------------------------------------------------------|
| Degree of protection                     | IP65/IP67                    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

## Mounting

|               |                |
|---------------|----------------|
| Mounting type | Panel mounting |
|---------------|----------------|

## Drawings

Connection diagram



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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC001599 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

## 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) |
|-------------------------------------|----------------------|