# 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

## Key commercial data

| | |
|---|---|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 4037.0 GRM |
| 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

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## 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

| | |
|---|---|
| Weight | 3.5 kg |
| Mounting type | Wall mounting |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |
| Note | Seal unused slots/connections to ensure the degree of protection. |
| 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 |

### 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 |

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## Technical data

### Digital inputs

| | |
|---|---|
| Number of inputs | 8 |
| Protective circuit | Electronic short-circuit/overload protection |
| Input voltage | 24 V |
| 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 |

### Digital outputs

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

## 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 |

### ETIM

| | |
|---|---|
| ETIM 2.0 | EC001433 |
| ETIM 3.0 | EC001601 |
| ETIM 4.0 | EC001601 |
| ETIM 5.0 | EC001601 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 43201404 |

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## Approvals

### Approvals

Approvals

INTERBUS CLUB

Ex Approvals

Approvals submitted

### Approval details

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|---|
| INTERBUS CLUB |