

FLS IB M12 DI 8 M12 - Distributed I/O device



2736013

<https://www.phoenixcontact.com/us/products/2736013>

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The stand-alone device for INTERBUS has 8 digital inputs. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload. The nominal current of the device is 600 mA.

Product description

This device is used for digital signal acquisition.

Your advantages

- Consistent connection via M12 connectors
- Diagnostic and status indicators
- SPEEDCON fast locking system
- Short-circuit and overload protection
- Flexible power supply concept

Commercial data

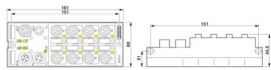
| | |
|--------------------------------------|--------------------------------|
| Item number | 2736013 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DR03 |
| Product key | DRI4A1 |
| GTIN | 4017918899639 |
| Weight per piece (including packing) | 335.1 g |
| Weight per piece (excluding packing) | 310 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

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Technical data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 60 mm |
| Height | 161 mm |
| Depth | 44.5 mm |
| Drill hole spacing | 151 mm |

Interfaces

INTERBUS

| | |
|------------------------------|----------------------------|
| Connection method | 2x M12 connectors, B-coded |
| Designation connection point | Copper cable |
| Number of positions | 5 |
| Transmission speed | 500 kbps |

System properties

System limits

| | |
|---|---|
| Number of local bus devices that can be connected | 0 |
| Number of devices with parameter channel | 0 |

Programming data

| | |
|-------------------------|-------|
| Length code (hex) | 81 |
| ID code (dec.) | 2 |
| Length code (dec) | 129 |
| Process data channel | 0 bit |
| Input address area | 8 bit |
| Output address area | 0 bit |
| Parameter channel (PCP) | 0 bit |
| Register length (bus) | 8 bit |

Input data

Digital:

| | |
|--------------------------------|---------------------|
| Input name | Digital inputs |
| Description of the input | IEC 61131-2 type 1 |
| Number of inputs | 8 |
| Connection method | M12 connector |
| Connection technology | 2-, 3-, 4-conductor |
| Input voltage | 24 V DC |
| Input voltage range "0" signal | -30 V DC ... 5 V DC |

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| | |
|--------------------------------|-----------------------------|
| Input voltage range "1" signal | 13 V DC ... 30 V DC |
| Nominal input voltage U_{IN} | 24 V DC |
| Filter time | 3 ms |
| Protective circuit | Reverse polarity protection |

Product properties

| | |
|-----------------|---------------|
| Product type | I/O component |
| Product family | Fieldline |
| Type | Block design |
| No. of channels | 8 |

Electrical properties

Potentials

| | |
|--------------------------------|--|
| Voltage supply U_L | 24 V DC |
| Power supply at U_L | max. 4 A |
| Current consumption from U_L | typ. 65 mA max. 100 mA |
| Voltage supply U_S | 24 V DC |
| Power supply at U_S | max. 4 A |
| Current consumption from U_S | typ. 5 mA (plus sensor current) max. 700 mA |

Supply: Module electronics

| | |
|----------------------|--|
| Connection method | M12 connector, A-coded |
| Designation | U_L |
| Supply voltage | 24 V DC |
| Supply voltage range | 18 V DC ... 30 V DC (including ripple) |

Electrical isolation/isolation of the voltage ranges

| | |
|---|----------------------|
| Test voltage: 24 V supply (bus logics) / FE | 500 V AC, 50 Hz, 1 s |
| Test voltage: 24 V supply (bus logics) / Digital inputs (sensor supply / I/O) | 500 V AC, 50 Hz, 1 s |
| Test voltage: 24 V supply (bus logics) / Incoming remote bus | 500 V AC, 50 Hz, 1 s |
| Test voltage: 24 V supply (bus logics) / Outgoing remote bus | 500 V AC, 50 Hz, 1 s |
| Test voltage: Digital inputs (sensor supply / I/O) / FE | 500 V AC, 50 Hz, 1 s |
| Test voltage: Digital inputs (sensor supply / I/O) / Incoming remote bus | 500 V AC, 50 Hz, 1 s |
| Test voltage: Digital inputs (sensor supply / I/O) / Outgoing remote bus | 500 V AC, 50 Hz, 1 s |
| Test voltage: Incoming remote bus / FE | 500 V AC, 50 Hz, 1 s |
| Test voltage: Incoming remote bus / Outgoing remote bus | 500 V AC, 50 Hz, 1 s |
| Test voltage: Outgoing remote bus / FE | 500 V AC, 50 Hz, 1 s |

Connection data

| | |
|-------------------|---------------|
| Connection method | M12 connector |
|-------------------|---------------|

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Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Degree of protection | IP65/IP67 |
| Air pressure (operation) | 80 kPa ... 106 kPa (up to 2000 m above sea level) |
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| Permissible humidity (storage/transport) | 95 % |

Standards and regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

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

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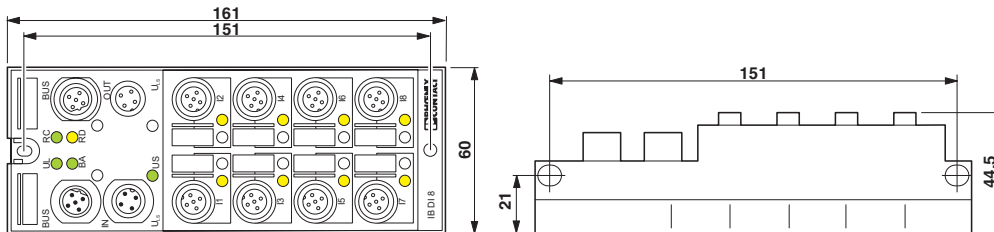


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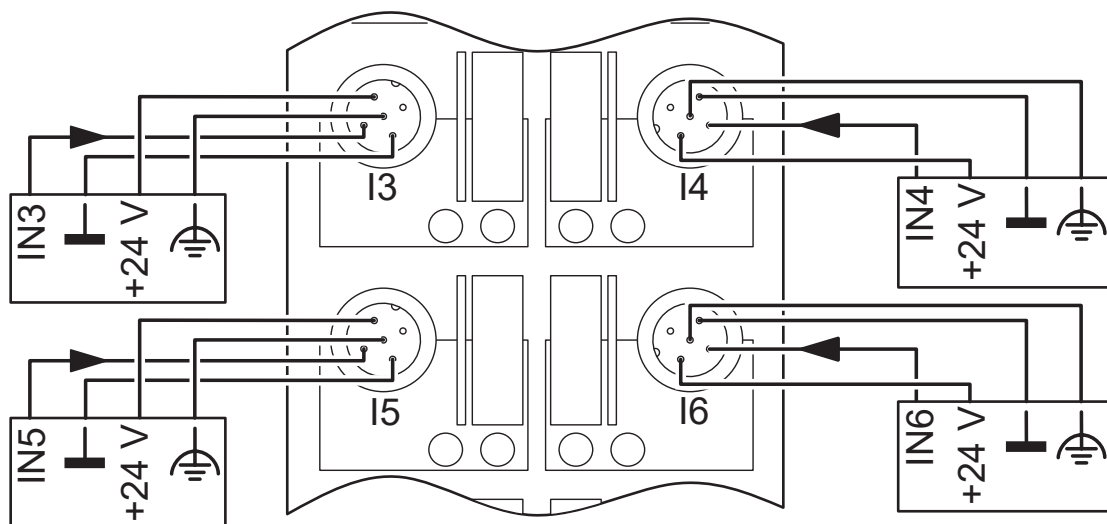
Drawings

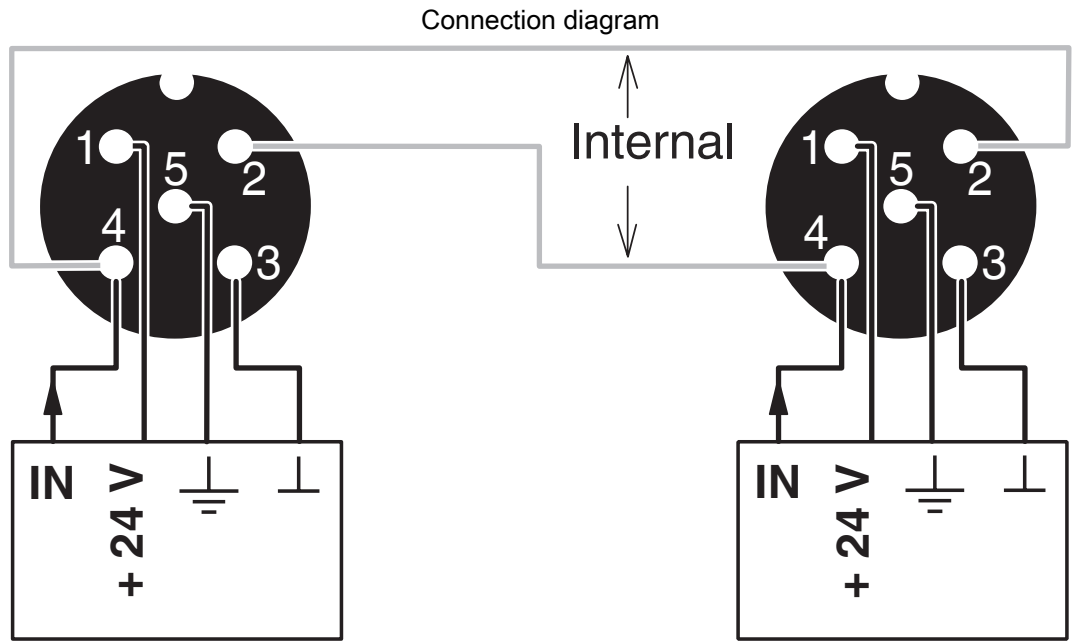
Dimensional drawing



Dimensions of the module

Connection diagram





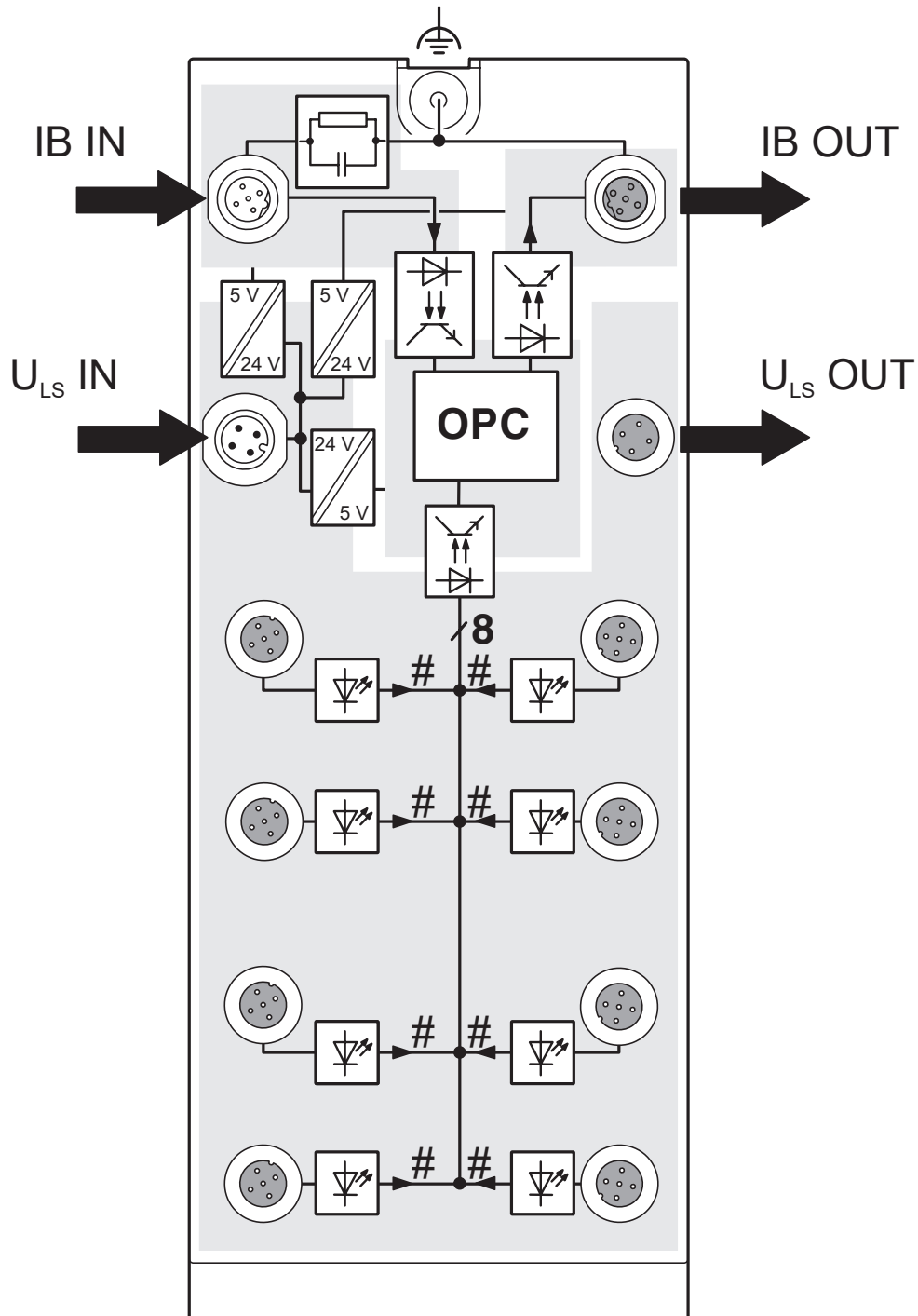
- | | | |
|----------------|---|----------------|
| female conn. 1 | ↔ | female conn. 2 |
| female conn. 3 | ↔ | female conn. 4 |
| female conn. 5 | ↔ | female conn. 6 |
| female conn. 7 | ↔ | female conn. 8 |

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Block diagram



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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151602 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 7(a), 7(c)-I |

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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