

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



2736385

<https://www.phoenixcontact.com/us/products/2736385>

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The stand-alone device for INTERBUS has 8 digital inputs and 8 digital outputs each with a load capacity of 500 mA. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload.

Product description

This device is used for digital signal acquisition and output.

Your advantages

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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2736385 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DR03 |
| Product key | DRI4A1 |
| GTIN | 4017918943257 |
| Weight per piece (including packing) | 382.5 g |
| Weight per piece (excluding packing) | 340 g |
| Customs tariff number | 85176200 |
| Country of origin | CN |

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Technical data

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 60 mm |
| Height | 178 mm |
| Depth | 49.3 mm |
| Drill hole spacing | 168 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 |

Module

| | |
|----------------------|-------|
| ID code (dec.) | 3 |
| ID code (hex) | 03 |
| Length code (hex) | 81 |
| Length code (dec) | 129 |
| Process data channel | 8 bit |
| Input address area | 8 bit |
| Output address area | 8 bit |
| Register length | 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 double occupancy |
| Connection technology | 2-, 3-, 4-conductor |

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| | |
|--------------------------------|-----------------------------|
| Input voltage | 24 V DC |
| Input voltage range "0" signal | -30 V DC ... 5 V DC |
| Input voltage range "1" signal | 13 V DC ... 30 V DC |
| Nominal input voltage U_{IN} | 24 V DC |
| Total sensor current | max. 600 mA |
| Filter time | 3 ms |
| Protective circuit | Reverse polarity protection |

Output data

Digital:

| | |
|------------------------------------|--------------------------------|
| Output name | Digital outputs |
| Connection method | M12 connector double occupancy |
| Connection technology | 2-, 3-conductor |
| Number of outputs | 8 |
| Protective circuit | Short-circuit protection |
| Output voltage | 24 V DC |
| Maximum output current per channel | 500 mA |

Product properties

| | |
|-----------------|---------------|
| Product type | I/O component |
| Product family | Fieldline |
| Type | Stand-alone |
| No. of channels | 16 |

Electrical properties

Potentials

| | |
|----------------------------------|---|
| Voltage supply U_L | 24 V DC |
| Power supply at U_L | max. 4 A |
| Current consumption from U_L | typ. 60 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. 10 mA (plus sensor current) max. 500 mA |
| Voltage supply U_{A11} | 24 V DC |
| Power supply at U_{A11} | max. 4 A |
| Current consumption at U_{A11} | typ. 6 mA (plus actuator current) max. 4 A |
| Voltage supply U_{A12} | 24 V DC |
| Power supply at U_{A12} | max. 4 A |
| Current consumption at U_{A12} | typ. 6 mA (plus actuator current) max. 4 A |

Supply: Module electronics

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| | |
|----------------------|--|
| 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: To I/O | 500 V AC |
|----------------------|----------|

Connection data

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

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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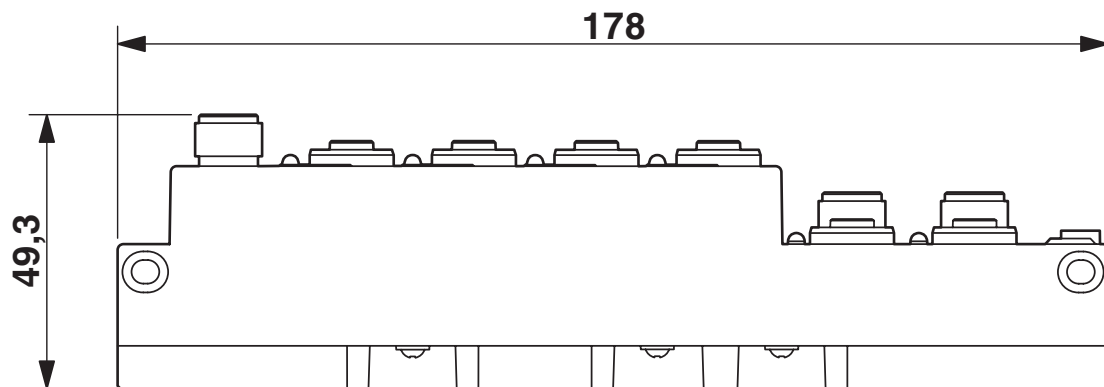


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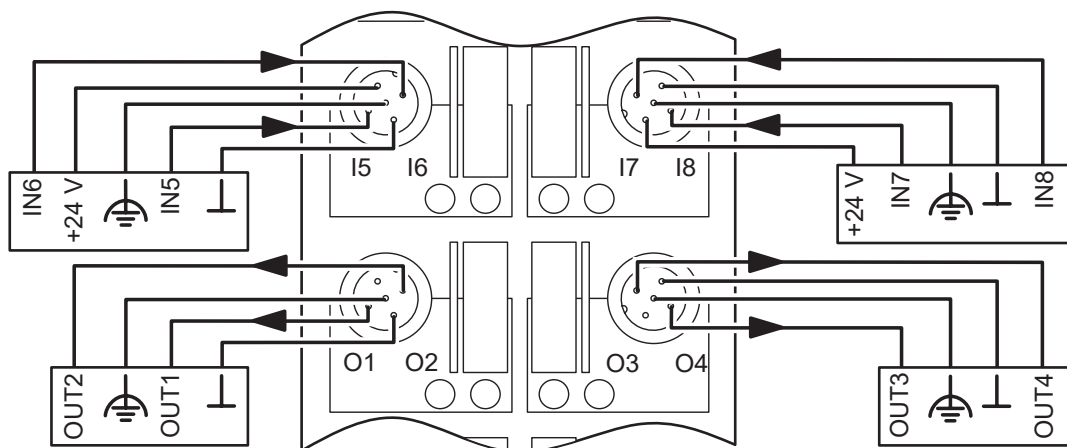
Drawings

Dimensional drawing



Dimensions of the module

Connection diagram

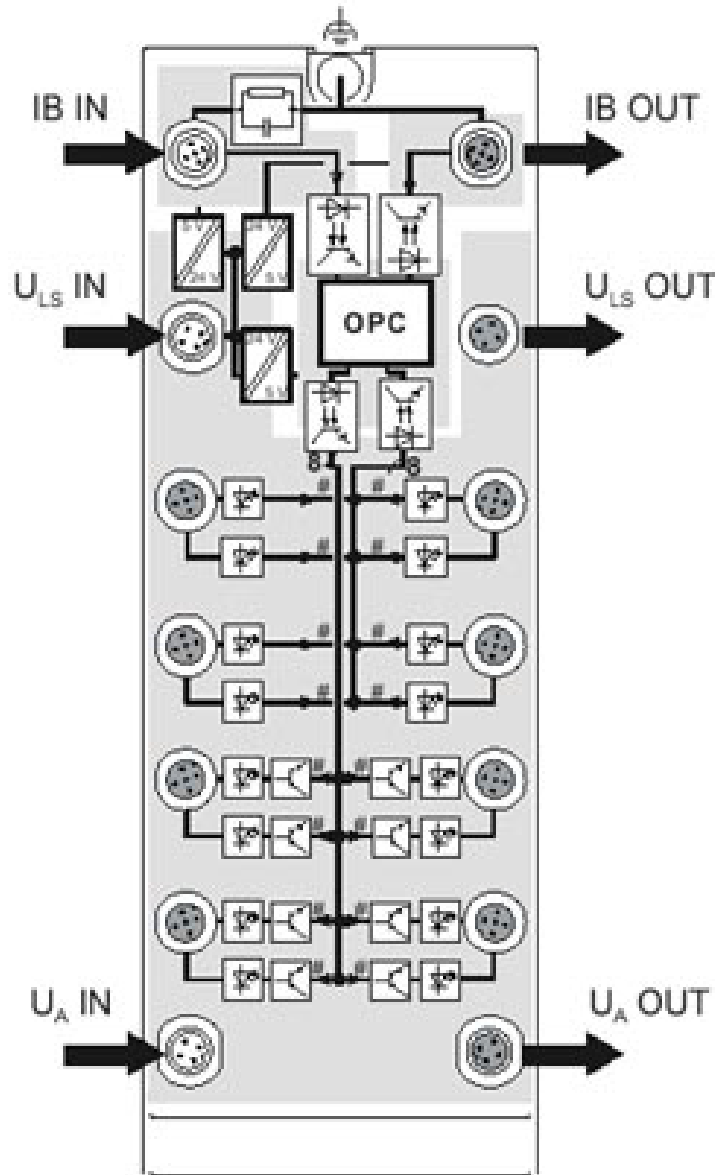


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Block diagram



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Approvals

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INTERBUS CLUB

Approval ID: 426/06.04.04

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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.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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