

FLS IB M12 DO 8 M12-2A - Distributed I/O device



2736039

<https://www.phoenixcontact.com/us/products/2736039>

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The stand-alone device for INTERBUS has 8 digital outputs each with a load capacity of 2 A. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload.

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	2736039
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR03
Product key	DRI4A1
GTIN	4017918899653
Weight per piece (including packing)	382.53 g
Weight per piece (excluding packing)	350 g
Customs tariff number	85176200
Country of origin	DE

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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

Remote bus

Connection method	2 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.)	1
Length code (dec)	129
Process data channel	8 bit
Output address area	8 bit
Parameter channel (PCP)	0 bit
Register length (bus)	8 bit

Output data

Digital:

Output name	Digital outputs
Connection method	M12 connector
Connection technology	2-, 3-conductor
Number of outputs	8
Protective circuit	Short-circuit protection
Output voltage	24 V DC

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Maximum output current per channel	2 A
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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	4 A
Current consumption from U_L	typ. 80 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. 3.5 mA
	max. 700 mA
Voltage supply U_{A11}	24 V DC
Power supply at U_{A11}	max. 4 A
Current consumption at U_{A11}	typ. 12 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. 12 mA (plus actuator current)
	max. 4 A
Voltage supply U_{A21}	24 V DC
Power supply at U_{A21}	max. 4 A
Current consumption at U_{A21}	typ. 12 mA (plus actuator current)
	max. 4 A
Voltage supply U_{A22}	24 V DC
Power supply at U_{A22}	max. 4 A
Current consumption at U_{A22}	typ. 12 mA (plus actuator current)
	max. 4 A

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) / 24 V supply (US)	500 V AC, 50 Hz, 1 s
Test voltage: 24 V supply (bus logics) / Digital outputs (actuator)	500 V AC, 50 Hz, 1 s

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supply)	
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: 24 V supply (US) / FE	500 V AC, 50 Hz, 1 s
Test voltage: Digital outputs (actuator supply) / FE	500 V AC, 50 Hz, 1 s
Test voltage: Digital outputs (actuator supply) / 24 V supply (US)	500 V AC, 50 Hz, 1 s
Test voltage: Digital outputs (actuator supply) / Incoming 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
Test voltage: Outgoing remote bus / 24 V supply (US)	500 V AC, 50 Hz, 1 s
Test voltage: Outgoing remote bus / Digital outputs (actuator supply)	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 %

Mechanical test

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Load 30g, half sine wave, positive and negative per direction
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g in each space direction

Standards and regulations

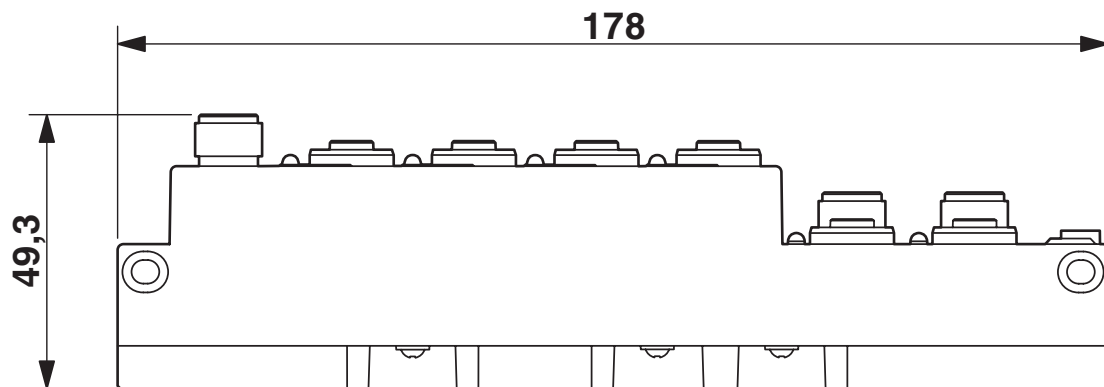
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

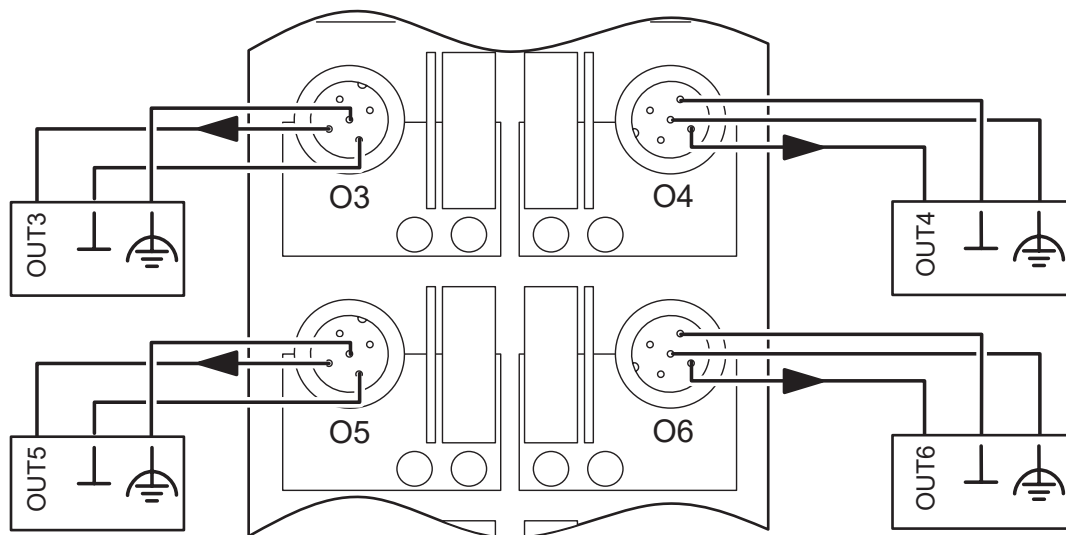
Mounting type	Panel mounting
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Drawings

Dimensional drawing



Connection diagram



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Approvals

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INTERBUS CLUB

Approval ID: 378/25.10.02

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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-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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