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

### Why buy this product

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



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 899653

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	60 mm
Height	178 mm
Depth	49.3 mm
Drill hole spacing	168 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)

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## Technical data

### Ambient conditions

Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP65/IP67

### General

Net weight	350 g
Mounting type	Wall mounting

### Interfaces

Designation	INTERBUS
Fieldbus system	INTERBUS
Designation	Remote bus
Connection method	2 M12 connectors, B-coded
Designation connection point	Copper cable
Transmission speed	500 kBit/s
Number of positions	5

### Power supply for 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)

### Fieldline 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)

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### Technical data

#### Fieldline potentials

	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

#### Digital outputs

Output name	Digital outputs
Connection method	M12 connector
	2, 3-wire
Number of outputs	8
Protective circuit	Short-circuit protection
Output voltage	24 V DC
Maximum output current per channel	2 A

#### Standards and Regulations

Test section	24 V supply (bus logics) / FE 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / 24 V supply (US) 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Digital outputs (actuator supply) 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Incoming remote bus 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Outgoing remote bus 500 V AC 50 Hz 1 s
	24 V supply (US) / FE 500 V AC 50 Hz 1 s
	Digital outputs (actuator supply) / FE 500 V AC 50 Hz 1 s
	Digital outputs (actuator supply) / 24 V supply (US) 500 V AC 50 Hz 1 s
	Digital outputs (actuator supply) / Incoming remote bus 500 V AC 50 Hz 1 s
	Incoming remote bus / FE 500 V AC 50 Hz 1 s
	Incoming remote bus / Outgoing remote bus 500 V AC 50 Hz 1 s
	Outgoing remote bus / FE 500 V AC 50 Hz 1 s
	Outgoing remote bus / 24 V supply (US) 500 V AC 50 Hz 1 s
	Outgoing remote bus / Digital outputs (actuator supply) 500 V AC 50 Hz 1 s
Mechanical tests	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 Load 30g, half sine wave, positive and negative per direction
	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g in each space direction
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

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## Classifications

### eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

### ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

### UNSPSC

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

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / INTERBUS CLUB / EAC / cULus Recognized

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#### Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

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#### Approvals submitted

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### Approval details

UL Recognized
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## Approvals

cUL Recognized

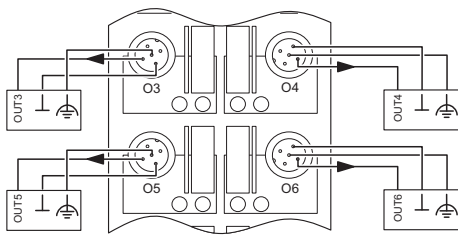
INTERBUS CLUB

EAC

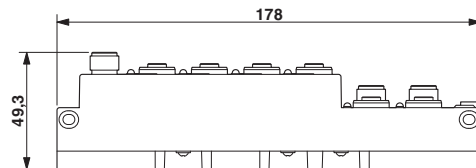
cULus Recognized

## Drawings

Connection diagram



Dimensional drawing



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