

Distributed I/O device - FLM IOL4 DI4 M12 - 2736990

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The local bus device has 4 IO-Link ports of 200 mA. Functions: parallel processing of service and process data, 500 kbaud/2 Mbaud selection, short-circuit and overload protection, 800 mA nominal current, M12 fast connection technology.

Product Description

The device serves to connect IO-Link devices.

Product Features

- Flexible power supply concept
- Short-circuit and overload protection
- Diagnostic and status indicators
- SPEEDCON fast locking system
- 4 IO-Link ports and 4 digital inputs
- Consistent connection via M12 connectors



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	339.3 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Environmental Product Compliance

REACH SVHC	DEHP 117-81-7
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Dimensions

Width	70 mm
Height	178 mm
Depth	50 mm
Drill hole spacing	168 mm

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Technical data

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)
Degree of protection	IP65/IP67

General

Mounting type	Wall mounting
Net weight	280 g

Interfaces

Designation	Fieldline local bus
Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Transmission speed	500 kBit/s / 2 MBit/s
Number of positions	5

Power supply for module electronics

Connection method	M12 connector
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	max. 4 A
Current consumption from U_L	max. 150 mA (At 500 kBaud)
	typ. 75 mA (At 500 kBaud)
Voltage supply U_S	24 V DC
Power supply at U_S	max. 4 A
Current consumption from U_S	typ. 25 mA (plus power supply for sensors)
	max. 2 A

Digital inputs

Input name	Digital inputs
Connection method	M12 connector
	2, 3-wire
Number of inputs	4
Nominal input current	8 mA (at 24 V DC)
Signal delay	< 3 ms (t_{on} , typical)

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Digital inputs

	3 ms (t_{off} , typical)
Permissible cable length	< 20 m

Standards and Regulations

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

Classifications

eCl@ss

eCl@ss 4.0	27240404
eCl@ss 4.1	27240404
eCl@ss 5.0	27242204
eCl@ss 5.1	27242604
eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242604
eCl@ss 9.0	27242604

ETIM

ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001599

UNSPSC

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

Accessories

Accessories

Data cable preassembled

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Accessories

Bus system cable - SAC-5P-MSB/ 0,3-900/FSB SCO - 1517958



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, Cable length: 0.3 m

Bus system cable - SAC-5P-MSB/ 0,5-900/FSB SCO - 1517961



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, Cable length: 0.5 m

Bus system cable - SAC-5P-MSB/ 1,0-900/FSB SCO - 1517974



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, Cable length: 1 m

Bus system cable - SAC-5P-MSB/ 2,0-900/FSB SCO - 1517987



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, Cable length: 2 m

Bus system cable - SAC-5P-MSB/ 5,0-900/FSB SCO - 1517990



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, Cable length: 5 m

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Accessories

Bus system cable - SAC-5P-MSB/10,0-900/FSB SCO - 1518009



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, Cable length: 10 m

Bus system cable - SAC-5P-MSB/15,0-900/FSB SCO - 1518012



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, Cable length: 15 m

Protective cap

Screw plug - PROT-MS SCO - 1553129



M12 screw plug with SPEEDCON quick locking for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors

Sensor/actuator cable

Sensor/Actuator cable - SAC-5P-MSB/0,13-PUR/FSB SCO SH - 1518478



Sensor/Actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, Cable length: 0.13 m

Sensor/Actuator cable - SAC-5P-MS/ 0,13-186/FS SCO - 1518481



Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 0.13 m

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Accessories

Sensor/Actuator cable - SAC-5P-MS/ 0,3-186/FS SCO - 1518407



Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 0.3 m

Sensor/Actuator cable - SAC-5P-MS/ 0,5-186/FS SCO - 1518410



Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 0.5 m

Sensor/Actuator cable - SAC-5P-MS/ 1,0-186/FS SCO - 1518423



Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 1 m

Sensor/Actuator cable - SAC-5P-MS/ 2,0-186/FS SCO - 1518436



Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 2 m

Sensor/Actuator cable - SAC-5P-MS/ 5,0-186/FS SCO - 1518449



Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 5 m

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Accessories

Sensor/Actuator cable - SAC-5P-MS/10,0-186/FS SCO - 1518452



Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 10 m

Sensor/Actuator cable - SAC-5P-MS/15,0-186/FS SCO - 1518465



Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 15 m

Terminal marking

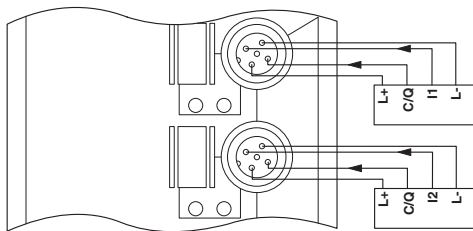
Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735



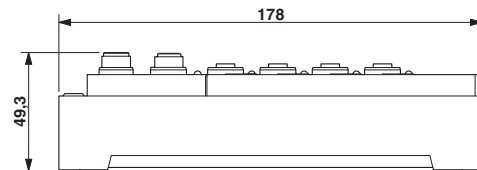
Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 5.15 x 12.15 mm

Drawings

Connection diagram



Dimensional drawing



Mouser Electronics

Authorized Distributor

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