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Distributed I/O device - FLM DO 8 M12 - 2736291

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The local bus device has digital outputs. Functions: 8 digital outputs of 500 mA each, 500 kbaud/2 Mbaud selection, channel-specific diagnostics, short-circuit and overload protection, M12 fast connection technology.

Product Features

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

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	368.6 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Note

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

Environmental Product Compliance

REACh SVHC	DEHP 117-81-7

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

General

Mounting type	Wall mounting
Net weight	310 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. 50 mA (At 2 Mbaud)
	typ. 45 mA (At 2 Mbaud)
	max. 50 mA (At 500 kBaud)
	typ. 40 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. 5 mA (plus power supply for sensors)
	max. 600 mA
Voltage supply U_{A11}	24 V DC
Power supply at U_{A11}	max. 4 A
Current consumption at U_{A11}	typ. 3 mA
	max. 2 A

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Technical data

Fieldline potentials

Voltage supply U_{A12}	24 V DC
Power supply at U_{A12}	max. 4 A
Current consumption at U_{A12}	typ. 3 mA
	max. 2 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	500 mA

Standards and Regulations

Test section	To I/O 500 V AC
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

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

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Classifications

UNSPSC

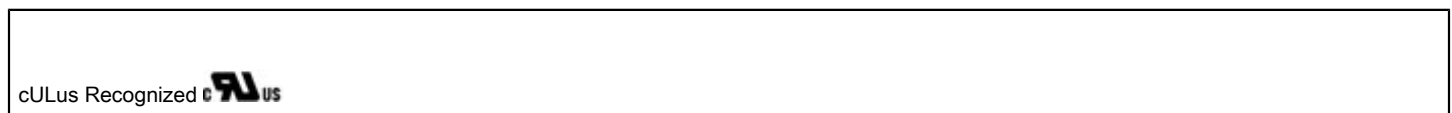| UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approvals submitted

Approval details

UL Recognized

cUL Recognized

cULus Recognized

Accessories

Accessories

Circular connector (cable-side)

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Accessories

Bus system connector - SACC-M12MSB-5CON-PG9 SH AU - 1507764

Bus system plug-in plug, male straight, 5-pos., M12, shielded, gold-plated contacts, B-coded, screw connection, metal knurl, cable screw connection Pg9

Bus system connector - SACC-M12FSB-5CON-PG9 SH AU - 1507777

Bus system connector, female, straight, 5-pos., M12, shielded, gold-plated contacts, B-coded, screw connection, metal knurl, cable screw connection Pg9

Connector - SACC-M12MSB-5SC SH - 1513570

Connector, 5-position, shielded, Plug straight M12, B-coded, Spring-cage connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

Connector - SACC-M12FSB-5SC SH - 1513596

Connector, 5-position, shielded, Socket straight M12, B-coded, Spring-cage connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

Connector - SACC-M12MRB-5SC SH - 1513583

Connector, 5-position, shielded, Plug angled M12, B-coded, Spring-cage connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

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Accessories

Connector - SACC-M12FRB-5SC SH - 1513606

Connector, 5-position, shielded, Socket angled M12, B-coded, Spring-cage connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

Connector - SACC-M12MS-5SC M - 1508187

Connector, 5-position, Plug straight M12, A-coded, Spring-cage connection, Knurl material: Zinc die-cast, nickel-plated, External cable diameter 4 mm ... 8 mm

Connector - SACC-M12FS-5SC M - 1508200

Connector, 5-position, Socket straight M12, A-coded, Spring-cage connection, Knurl material: Zinc die-cast, nickel-plated, External cable diameter 4 mm ... 8 mm

Data cable preassembled

Bus system cable - SAC-5P-M12MSB/ 2,0-900 - 1507065

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

Bus system cable - SAC-5P-M12MSB/ 5,0-900 - 1507078

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

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Accessories

Bus system cable - SAC-5P-M12MSB/10,0-900 - 1507081

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

Bus system cable - SAC-5P-M12MSB/15,0-900 - 1507094

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

Bus system cable - SAC-5P- 2,0-900/M12FSB - 1507117

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

Bus system cable - SAC-5P- 5,0-900/M12FSB - 1507120

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

Bus system cable - SAC-5P-10,0-900/M12FSB - 1507133

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

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Bus system cable - SAC-5P-15,0-900/M12FSB - 1507146

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

Bus system cable - SAC-5P-M12MSB/ 0,3-900/M12FSB - 1507162

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

Bus system cable - SAC-5P-M12MSB/ 0,5-900/M12FSB - 1507175

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

Bus system cable - SAC-5P-M12MSB/ 1,0-900/M12FSB - 1507188

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

Bus system cable - SAC-5P-M12MSB/ 2,0-900/M12FSB - 1507191

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

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Bus system cable - SAC-5P-M12MSB/ 5,0-900/M12FSB - 1507201

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

Bus system cable - SAC-5P-M12MSB/10,0-900/M12FSB - 1507214

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

Bus system cable - SAC-5P-M12MSB/15,0-900/M12FSB - 1507227

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

Sensor/actuator cable

Sensor/Actuator cable - SAC-5P-MS/ 2,0-186 SCO - 1518326

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

Sensor/Actuator cable - SAC-5P-MS/ 5,0-186 SCO - 1518339

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

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Sensor/Actuator cable - SAC-5P-MS/10,0-186 SCO - 1518342

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

Sensor/Actuator cable - SAC-5P-MS/15,0-186 SCO - 1518355

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

Sensor/Actuator cable - SAC-5P- 2,0-186/FS SCO - 1518368

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

Sensor/Actuator cable - SAC-5P- 5,0-186/FS SCO - 1518371

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

Sensor/Actuator cable - SAC-5P-10,0-186/FS SCO - 1518384

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

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Sensor/Actuator cable - SAC-5P-15,0-186/FS SCO - 1518397

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

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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

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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

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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

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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

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Accessories

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

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

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

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

Terminal marking

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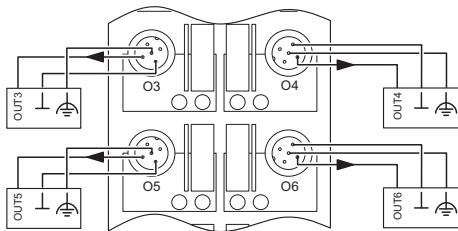
Accessories
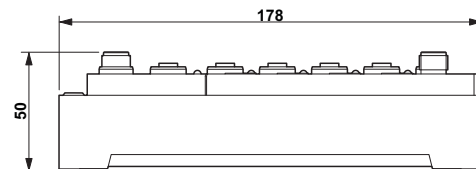
Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735

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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