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Distributed I/O device - FLM DI 8 M8 - 2773348

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The space-saving local bus device is particularly suitable for use in close proximity to the process. Functions: 8 digital inputs with 3 ms filter time, channel-specific diagnostics, short-circuit and overload protection, 600 mA nominal current, M8 connection method.

Product Description

The device is designed for use in the Fieldline Modular M8 local bus, which is opened by a Fieldline or Inline bus coupler. It is used to acquire digital signals.

Product Features

- Can also be connected to an Inline station
- Optimized for 30 mm mounting profile
- Diagnostic and status indicators
- Short-circuit and overload protection
- Consistent connection via M8 connectors

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	156.6 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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

Dimensions

Width	29.8 mm
Height	143 mm
Depth	26.5 mm
Note on dimensions	Length details incl. fixing clips

Distributed I/O device - FLM DI 8 M8 - 2773348

Technical data

Dimensions

Drill hole spacing	133 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 %
Permissible humidity (storage/transport)	10 % ... 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	137 g

Interfaces

Designation	Fieldline local bus
Connection method	M8 connector
Designation connection point	Copper cable
Transmission speed	500 kBit/s
Number of positions	4

Power supply for module electronics

Connection method	M8 connector
Designation	U_L
Number of positions	4
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)
Supply current	3 A

Fieldline potentials

Voltage supply U_L	24 V DC

Digital inputs

Input name	Digital inputs
Connection method	M8 connector
	2, 3-wire
Number of inputs	8
Protective circuit	Reverse polarity protection
Filter time	3 ms
Input characteristic curve	IEC 61131-2 type 1

Distributed I/O device - FLM DI 8 M8 - 2773348

Technical data

Digital inputs

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

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

Approvals

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Distributed I/O device - FLM DI 8 M8 - 2773348

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approvals submitted

Approval details

UL Recognized

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Accessories

Accessories

Adapter

Adapter - FLM ADAP M12/M8 - 2736961

Adapter for connecting Fieldline Modular M8 devices to a Fieldline Modular M12 local bus

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Circular connector (cable-side)

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CONTACT

Distributed I/O device - FLM DI 8 M8 - 2773348

Accessories

Connector - SACC-M 8MS-4CON-M-0,34-SH - 1542897

Connector, 4-position, shielded, Plug straight M8, A-coded, Screw connection, Knurl material: Nickel-plated brass, External cable diameter 3.5 mm ... 5.5 mm

Connector - SACC-M 8FS-4CON-M-0,34-SH - 1542910

Connector, 4-position, shielded, Socket straight M8, A-coded, Screw connection, Knurl material: Nickel-plated brass, External cable diameter 3.5 mm ... 5.5 mm

Data cable by the meter

Bus system cable - SAC-4P-950/... - 1543401

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, free cable end, on free cable end, Cable length: Free entry (0.5 ... 400.0 m)

Data cable preassembled

Bus system cable - SAC-4P-M 8MS/ 2,0-950 - 1543249

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on free cable end, Cable length: 2 m

Bus system cable - SAC-4P-M 8MS/ 5,0-950 - 1543252

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on free cable end, Cable length: 5 m

PHŒNIX CONTACT

Distributed I/O device - FLM DI 8 M8 - 2773348

Accessories

Bus system cable - SAC-4P-M 8MS/10,0-950 - 1543265

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on free cable end, Cable length: 10 m

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Bus system cable - SAC-4P-M 8MS/15,0-950 - 1543278

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on free cable end, Cable length: 15 m

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Bus system cable - SAC-4P-M 8MS/20,0-950 - 1543281

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on free cable end, Cable length: 20 m

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Bus system cable - SAC-4P- 2,0-950/M 8FS - 1543294

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, free cable end, on Socket straight M8, Cable length: 2 m

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Bus system cable - SAC-4P- 5,0-950/M 8FS - 1543304

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, free cable end, on Socket straight M8, Cable length: 5 m

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Distributed I/O device - FLM DI 8 M8 - 2773348

Accessories

Bus system cable - SAC-4P-10,0-950/M 8FS - 1543317

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, free cable end, on Socket straight M8, Cable length: 10 m

Bus system cable - SAC-4P-15,0-950/M 8FS - 1543320

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, free cable end, on Socket straight M8, Cable length: 15 m

Bus system cable - SAC-4P-20,0-950/M 8FS - 1543333

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, free cable end, on Socket straight M8, Cable length: 20 m

Bus system cable - SAC-4P-M 8MS/ 0,13-950/M 8FS - 1543346

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 0.13 m

Bus system cable - SAC-4P-M 8MS/ 0,3-950/M 8FS - 1543511

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 0.3 m

Distributed I/O device - FLM DI 8 M8 - 2773348

Accessories

Bus system cable - SAC-4P-M 8MS/ 0,5-950/M 8FS - 1543524

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 0.5 m

Bus system cable - SAC-4P-M 8MS/ 1,0-950/M 8FS - 1543537

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 1 m

Bus system cable - SAC-4P-M 8MS/ 2,0-950/M 8FS - 1543359

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 2 m

Bus system cable - SAC-4P-M 8MS/ 5,0-950/M 8FS - 1543362

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 5 m

Bus system cable - SAC-4P-M 8MS/10,0-950/M 8FS - 1543375

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 10 m

Distributed I/O device - FLM DI 8 M8 - 2773348

Accessories

Bus system cable - SAC-4P-M 8MS/15,0-950/M 8FS - 1543388

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 15 m

Bus system cable - SAC-4P-M 8MS/20,0-950/M 8FS - 1543391

Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 20 m

I/O component

Inline function terminal - IB IL 24 FLM-PAC - 2736903

Inline branch terminal for coupling a Fieldline Modular local bus M12 or M8 at the end of an Inline station, conversion of Inline local bus physical structure to the Fieldline local bus physical structure

Protective cap

Screw plug - PROT-M8 - 1682540

An M8 screw plug for the unoccupied M8 sockets of the sensor/actuator cable, boxes and flush-type connectors

Terminal marking

PHŒNIX
CONTACT

Distributed I/O device - FLM DI 8 M8 - 2773348

Accessories
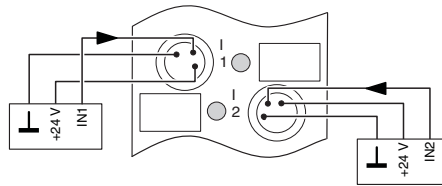
Zack Marker strip, flat - ZBF 8:UNBEDRUCKT - 0808781

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 8 mm, Lettering field: 5.15 x 8.15 mm
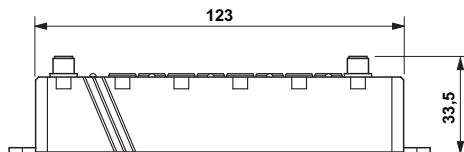
Drawings

Dimensional drawing

Top view (dimensions in mm)

Connection diagram

Dimensional drawing

Side view (dimensions in mm)

Mouser Electronics

Authorized Distributor

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