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Distributed I/O device - FLM DIO 8/4 M8 - 2773351

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The space-saving local bus device is particularly suitable for use in close proximity to the process. Functions: 4 digital inputs, 4 digital I/Os of 500 mA, maximum, channel-specific diagnostics, short-circuit/overload protection, 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 and output digital signals.

Your advantages

☑ 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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 181686
GTIN	4046356181686
Weight per Piece (excluding packing)	164.300 g
Custom tariff number	85389099
Country of origin	Germany

Technical data

Note

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

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Technical data

Dimensions

Caption	Side view (dimensions in mm)
Width	29.8 mm
Height	143 mm
Depth	26.5 mm
Note on dimensions	Length details incl. fixing clips
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
Color	black
Net weight	144 g

Interfaces

Designation	Fieldline local bus
Connection method	M8 connector
Designation connection point	Copper cable
Transmission speed	500 kbps
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

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Technical data

Digital inputs

Description of the input	IEC 61131-2 type 1
Connection method	M8 connector
Connection technology	2, 3-wire
Number of inputs	8 (4 fixed, 4 freely selectable)
Protective circuit	Reverse polarity protection
Nominal input voltage U_{IN}	24 V DC
Filter time	3 ms
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

Digital outputs

Output name	Digital outputs
Connection method	M8 connector
Connection technology	2, 3-wire
Number of outputs	4 (Can also be used as an input)
Protective circuit	Short-circuit protection
Output voltage	24 V DC
Maximum output current per channel	500 mA

Electrical isolation

Test section	To I/O 500 V AC

Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

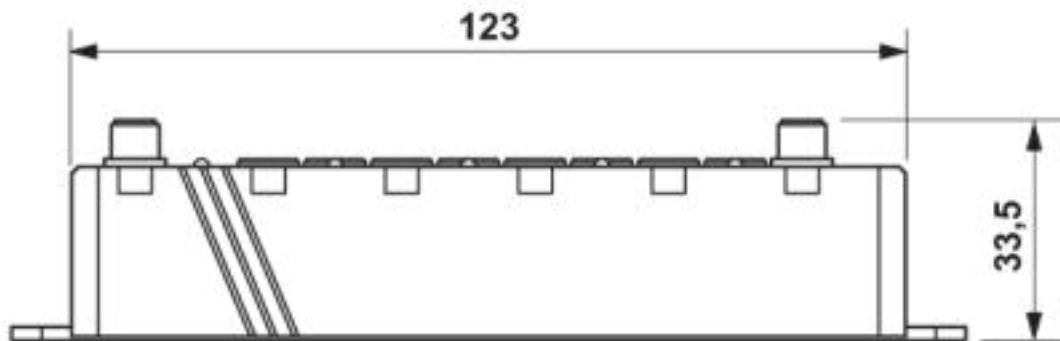|	
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

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Connection diagram
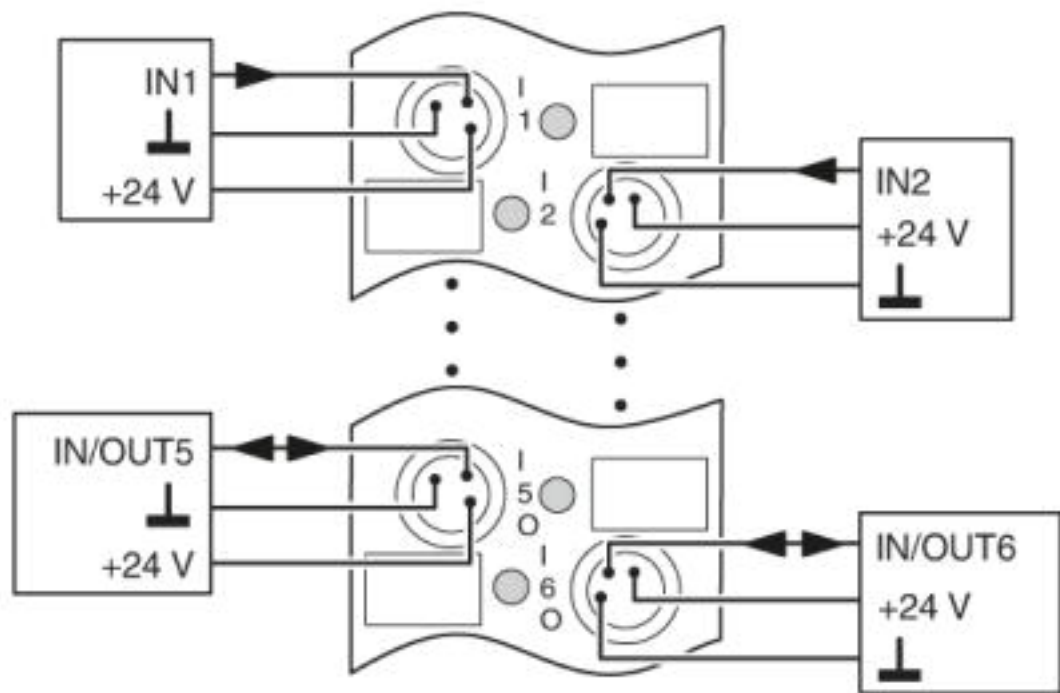
Dimensional drawing

Side view (dimensions in mm)

Classifications

eCl@ss

eCl@ss 10.0.1	27242604
eCl@ss 4.0	27250300
eCl@ss 4.1	27250300

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Classifications

eCl@ss

eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
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
ETIM 6.0	EC001599
ETIM 7.0	EC001599

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

Approvals

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UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approval details

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Approvals

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cULus Recognized	

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)

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

Connector, Universal, 4-position, shielded, Plug straight M8, Coding: A, Screw connection, knurl material: Nickel-plated brass, external cable diameter 3.5 mm ... 5.5 mm

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

Connector, Universal, 4-position, shielded, Socket straight M8, Coding: A, Screw connection, knurl material: Nickel-plated brass, external cable diameter 3.5 mm ... 5.5 mm

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Accessories

Connector - SACC-M 8FS-4PCON - 1506781

Connector, Universal, 4-position, Socket straight M8, Coding: A, Piercecon® fast connection, knurl material: Nickel-plated brass, external cable diameter 3 mm ... 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 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

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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

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

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

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

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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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

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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

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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 extending the Inline local bus to Inline or Fieldline Modular, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connector and labeling field

Plug for cable screw gland

Screw plug - PROT-M8 - 1682540

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

Sensor/actuator cable

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Accessories

Sensor/actuator cable - SAC-4P- 2,0-PUR/M 8FS 0,34 - 1543582

Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M8, cable length: 2 m

Sensor/actuator cable - SAC-4P- 5,0-PUR/M 8FS 0,34 - 1534818

Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M8, cable length: 5 m

Sensor/actuator cable - SAC-4P-10,0-PUR/M 8FS 0,34 - 1543595

Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M8, cable length: 10 m

Sensor/actuator cable - SAC-4P-15,0-PUR/M 8FS 0,34 - 1543605

Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M8, cable length: 15 m

Sensor/actuator cable - SAC-4P-20,0-PUR/M 8FS 0,34 - 1543618

Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M8, cable length: 20 m

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Accessories

Sensor/actuator cable - SAC-4P-M 8FS/.../... - 1697771

Sensor/actuator cable, 4-position, Variable cable type, free cable end, on Socket straight M8, cable length: Free input (0.2 ... 40.0 m)

Terminal marking

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

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10