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## FLM DIO 8/4 M8

Order No.: 2773351

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2773351>

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.

### Commercial data

GTIN (EAN)	 4 046356 181686
sales group	L086
Pack	1 pcs.
Customs tariff	85389091
Catalog page information	Page 377 (AX-2009)

### Product notes

WEEE/RoHS-compliant since:  
12/08/2009

<http://www.download.phoenixcontact.com>  
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### 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.

## Technical data

### General data

Width	29.8 mm
Height	143 mm
Depth	26.5 mm
Note on dimensions	Length details incl. fixing clips
Drill hole spacing	133 mm
Weight	144 g
Mounting type	Wall mounting
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	IP65/67
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	To I/O 500 V AC

### Interface

Name	Local bus
Type of connection	M8 male connector
Designation connection point	Copper cable
Transmission speed	500 kBaud
Number of positions	4

### Power supply for module electronics

Type of connection	M8 male connector
Name	$U_L$
Number of positions	4
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC IEC 61131-2 (including ripple)
Supply current	3 A

### Fieldline potential routing

Voltage supply $U_L$	24 V DC
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#### Digital inputs

Input name	Digital inputs
Description of the input	4 fixed, 4 freely selectable
Type of connection	M8 male connector
Connection method	2, 3-wire
Number of inputs	8
Protective circuit	Protection against polarity reversal
Filter time	3 ms
Input characteristic curve	IEC 61131-2 type 1
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
Output description	Can also be used as inputs
Type of connection	M8 male connector
Connection method	2, 3-wire
Number of outputs	4
Protective circuit	Short-circuit protection
Output voltage	24 V DC
Maximum output current per channel	500 mA

#### Certificates / Approvals



Certification	CUL, UL
Certification Ex:	CUL-EX, UL-EX

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Accessories		
Item	Designation	Description
<b>General</b>		
2736961	FLM ADAP M12/M8	Adapter for connecting Fieldline Modular M8 devices to a Fieldline Modular M12 local bus
2736903	IB IL 24 FLM-PAC	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
1543294	SAC-4P- 2,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Free conductor end, on Socket, straight M8, Cable length: 2 m
1543582	SAC-4P- 2,0-PUR/M 8FS 0,34	Sensor/Actuator cable, 4-position, PUR, Black RAL 9005, Free conductor end, on Socket, straight M8, Cable length: 2 m
1543304	SAC-4P- 5,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Free conductor end, on Socket, straight M8, Cable length: 5 m
1534818	SAC-4P- 5,0-PUR/M 8FS 0,34	Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Free conductor end, on Socket, straight M8, Cable length: 5 m
1543317	SAC-4P-10,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Free conductor end, on Socket, straight M8, Cable length: 10 m
1543595	SAC-4P-10,0-PUR/M 8FS 0,34	Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Free conductor end, on Socket, straight M8, Cable length: 10 m
1543320	SAC-4P-15,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Free conductor end, on Socket, straight M8, Cable length: 15 m
1543605	SAC-4P-15,0-PUR/M 8FS 0,34	Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, Free conductor end, on Socket, straight M8, Cable length: 15 m
1543333	SAC-4P-20,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Free conductor end, on Socket, straight M8, Cable length: 20 m
1543618	SAC-4P-20,0-PUR/M 8FS 0,34	Sensor/Actuator cable, 4-position, PUR, Black RAL 9005, Free conductor end, on Socket, straight M8, Cable length: 20 m
1543401	SAC-4P-950/...	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Free conductor end, on Free conductor end, Cable length: Free input (0.2 ... 40.0 m)
1697771	SAC-4P-M 8FS/.../...	Sensor/Actuator cable, 4-position, Free conductor end, on Socket, straight M8, Cable length: Free input (0.2 ... 40.0 m)
1543346	SAC-4P-M 8MS/ 0,13-950/M 8FS	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

1543511	SAC-4P-M 8MS/ 0,3-950/M 8FS	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
1543524	SAC-4P-M 8MS/ 0,5-950/M 8FS	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
1543537	SAC-4P-M 8MS/ 1,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Socket, straight M8, Cable length: 1 m
1543249	SAC-4P-M 8MS/ 2,0-950	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Free conductor end, Cable length: 2 m
1543359	SAC-4P-M 8MS/ 2,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Socket, straight M8, Cable length: 2 m
1543252	SAC-4P-M 8MS/ 5,0-950	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Free conductor end, Cable length: 5 m
1543362	SAC-4P-M 8MS/ 5,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Socket, straight M8, Cable length: 5 m
1543265	SAC-4P-M 8MS/10,0-950	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Free conductor end, Cable length: 10 m
1543375	SAC-4P-M 8MS/10,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Socket, straight M8, Cable length: 10 m
1543278	SAC-4P-M 8MS/15,0-950	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Free conductor end, Cable length: 15 m
1543388	SAC-4P-M 8MS/15,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Socket, straight M8, Cable length: 15 m
1543281	SAC-4P-M 8MS/20,0-950	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Free conductor end, Cable length: 20 m
1543391	SAC-4P-M 8MS/20,0-950/M 8FS	Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, straight M8, on Socket, straight M8, Cable length: 20 m
1542910	SACC-M 8FS-4CON-M-0,34-SH	Sensor/actuator connector, female, straight, 4-pos., M8, shielded, screw connection, metal knurl, cable diameter max. 5.2 mm
1506781	SACC-M 8FS-4PCON	Sensor/actuator connector, female, straight, 4-pos., M8, Piercecon®, metal knurl, cable diameter max. 5 mm
1542897	SACC-M 8MS-4CON-M-0,34-SH	Sensor/actuator connector, male, straight, 4-pos., M8, shielded, screw connection, metal knurl, cable diameter max. 5.2 mm

**Marking**

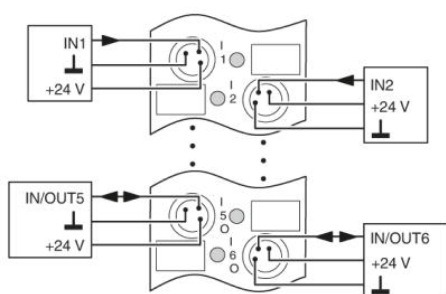
0808781	ZBF 8:UNBEDRUCKT	Zack strip, flat, unprinted: 10-section, for individual labeling with M-PEN or ZBF-T, sufficient for 100 terminal blocks, color: white
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**Protection and sealing elements**

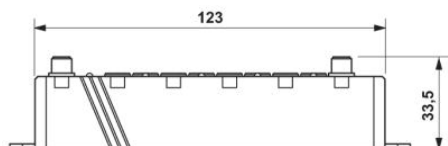
1682540	PROT-M8	An M8 screw plug for the unoccupied M8 sockets of the sensor/ actuator cable, boxes and flush-type connectors
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**Diagrams/Drawings**

Connection diagram



Dimensioned drawing



Side view (dimensions in mm)

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