

FLM DIO 8/4 M8

Order No.: 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.

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



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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

Accessories

Item	Designation	Description
General		
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

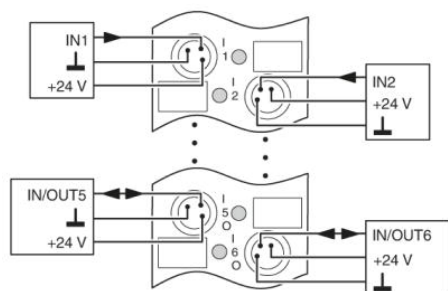
0808781	ZBF 8:UNBEDRUCKT	Zack strip, flat, unprinted: 10-section, for individual labeling with M-PEN or ZBF-T, sufficient for 100 terminal blocks, color: white
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Protection and sealing elements

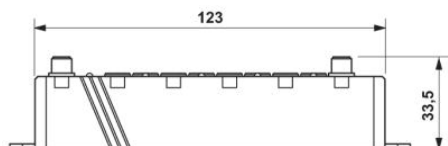
1682540	PROT-M8	An M8 screw plug for the unoccupied M8 sockets of the sensor/ actuator cable, boxes and flush-type connectors
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Diagrams/Drawings

Connection diagram



Dimensioned drawing



Side view (dimensions in mm)

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