

## FLM DI 8 M8

Order No.: 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.

### Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 046356 181693 |
| sales group              | L086                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85389091                                                                                               |
| Catalog page information | Page 376 (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 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                                   | 137 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 <sub>L</sub>                                     |
| 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 <sub>L</sub> | 24 V DC |
|-------------------------------|---------|

**Digital inputs**

|                                |                                      |
|--------------------------------|--------------------------------------|
| Input name                     | Digital inputs                       |
| 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                  |

**Certificates / Approvals**

Certification

CUL, UL

Certification Ex:

CUL-EX, UL-EX

**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                                                           |
| 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                                                           |
| 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                                                          |

|         |                              |                                                                                                                                                                           |
|---------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                       |
| 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                       |
| 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) |
| 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                       |
| 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**

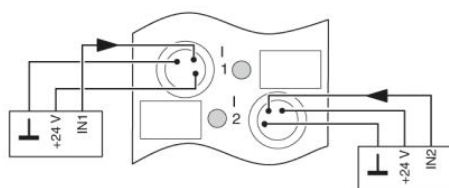
|         |                  |                                                                                                                                        |
|---------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
|---------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|

**Protection and sealing elements**

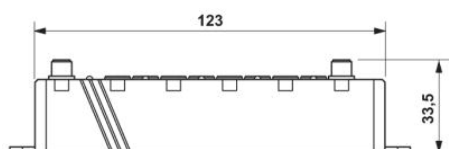
|         |         |                                                                                                               |
|---------|---------|---------------------------------------------------------------------------------------------------------------|
| 1682540 | PROT-M8 | An M8 screw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

**Diagrams/Drawings**

## Connection diagram



## Dimensioned drawing



Side view (dimensions in mm)

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