

## Distributed I/O device - FLS IB M12 DI 16 M12 - 2736314

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The stand-alone device for INTERBUS has 16 digital inputs. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload. The nominal current of the device is 1.2 A.

### Product Description

This device is used for digital signal acquisition.

### Product Features

- Flexible power supply concept
- Short-circuit and overload protection
- Diagnostic and status indicators
- SPEEDCON fast locking system
- Consistent connection via M12 connectors



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	340.08 g
Custom tariff number	85176200
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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#### Dimensions

Width	60 mm
Height	161 mm
Depth	44.5 mm

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## Technical data

### Dimensions

Drill hole spacing	151 mm
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### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	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	310 g

### Interfaces

Fieldbus system	INTERBUS
Designation	INTERBUS
Connection method	2x M12 connectors, B-coded
Designation connection point	Copper cable
Transmission speed	500 kBit/s
Number of positions	5

### Power supply for module electronics

Connection method	M12 connector, (A-coded)
Designation	U <sub>L</sub>
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)

### Fieldline potentials

Voltage supply U <sub>L</sub>	24 V DC
Power supply at U <sub>L</sub>	max. 4 A
Current consumption from U <sub>L</sub>	typ. 65 mA
	max. 100 mA
Voltage supply U <sub>S</sub>	24 V DC
Power supply at U <sub>S</sub>	max. 4 A
Current consumption from U <sub>S</sub>	typ. 8 mA (plus sensor current)
	max. 1.2 A

### Digital inputs

Input name	Digital inputs
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### Technical data

#### Digital inputs

Connection method	M12 connector, double occupancy
	2, 3, 4-wire
Number of inputs	16
Protective circuit	Reverse polarity protection
Filter time	1 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

#### 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

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## Classifications

### UNSPSC

UNSPSC 13.2	43201404
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## Approvals

### Approvals

#### Approvals

UL Recognized / cUL Recognized / INTERBUS CLUB / cULus Recognized

#### Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

#### Approvals submitted

## Approval details

UL Recognized 

cUL Recognized 

INTERBUS CLUB

cULus Recognized 

## Accessories

### Accessories

Circular connector (cable-side)

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### Accessories

Bus system connector - SACC-M12MSB-5CON-PG9 SH AU - 1507764



Bus system plug-in plug, male straight, 5-pos., M12, shielded, gold-plated contacts, B-coded, screw connection, metal knurl, cable screw connection Pg9

Bus system connector - SACC-M12FSB-5CON-PG9 SH AU - 1507777



Bus system connector, female, straight, 5-pos., M12, shielded, gold-plated contacts, B-coded, screw connection, metal knurl, cable screw connection Pg9

### Data cable preassembled

Bus system cable - SAC-5P-M12MSB/ 2,0-900 - 1507065



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on free cable end, Cable length: 2 m

Bus system cable - SAC-5P-M12MSB/ 5,0-900 - 1507078



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on free cable end, Cable length: 5 m

Bus system cable - SAC-5P-M12MSB/10,0-900 - 1507081



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on free cable end, Cable length: 10 m

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### Accessories

Bus system cable - SAC-5P-M12MSB/15,0-900 - 1507094



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on free cable end, Cable length: 15 m

Bus system cable - SAC-5P- 2,0-900/M12FSB - 1507117



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, free cable end, on Socket straight M12, B-coded, Cable length: 2 m

Bus system cable - SAC-5P- 5,0-900/M12FSB - 1507120



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, free cable end, on Socket straight M12, B-coded, Cable length: 5 m

Bus system cable - SAC-5P-10,0-900/M12FSB - 1507133



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, free cable end, on Socket straight M12, B-coded, Cable length: 10 m

Bus system cable - SAC-5P-15,0-900/M12FSB - 1507146



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, free cable end, on Socket straight M12, B-coded, Cable length: 15 m

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### Accessories

Bus system cable - SAC-5P-M12MSB/ 0,3-900/M12FSB - 1507162



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 0.3 m

Bus system cable - SAC-5P-M12MSB/ 0,5-900/M12FSB - 1507175



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 0.5 m

Bus system cable - SAC-5P-M12MSB/ 1,0-900/M12FSB - 1507188



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 1 m

Bus system cable - SAC-5P-M12MSB/ 2,0-900/M12FSB - 1507191



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 2 m

Bus system cable - SAC-5P-M12MSB/ 5,0-900/M12FSB - 1507201



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 5 m

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### Accessories

Bus system cable - SAC-5P-M12MSB/10,0-900/M12FSB - 1507214



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 10 m

Bus system cable - SAC-5P-M12MSB/15,0-900/M12FSB - 1507227



Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 15 m

### Distributor with cable

Sensor/Actuator cable - SAC-4P-M12Y/2X0,3-PUR/M12FS VP - 1510722



Sensor/Actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded and Socket straight M12, A-coded, Cable length: 0.3 m, Parallel distributor

### Protective cap

Screw plug - PROT-M12 - 1680539



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

### Sensor/actuator cable



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### Accessories

Sensor/Actuator cable - SAC-4P-M12MS/ 2,0-186 - 1509445



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, Cable length: 2 m

Sensor/Actuator cable - SAC-4P-M12MS/ 5,0-186 - 1509458



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, Cable length: 5 m

Sensor/Actuator cable - SAC-4P-M12MS/10,0-186 - 1509461



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, Cable length: 10 m

Sensor/Actuator cable - SAC-4P-M12MS/15,0-186 - 1509474



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, Cable length: 15 m

Sensor/Actuator cable - SAC-4P- 2,0-186/M12FS - 1509487



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, Cable length: 2 m

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### Accessories

Sensor/Actuator cable - SAC-4P- 5,0-186/M12FS - 1509490



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, Cable length: 5 m

Sensor/Actuator cable - SAC-4P-10,0-186/M12FS - 1509500



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, Cable length: 10 m

Sensor/Actuator cable - SAC-4P-15,0-186/M12FS - 1509513



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, Cable length: 15 m

Sensor/Actuator cable - SAC-4P-M12MS/ 0,3-186/M12FS - 1509526



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 0.3 m

Sensor/Actuator cable - SAC-4P-M12MS/ 0,5-186/M12FS - 1509539



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 0.5 m

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### Accessories

Sensor/Actuator cable - SAC-4P-M12MS/ 1,0-186/M12FS - 1509542



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 1 m

Sensor/Actuator cable - SAC-4P-M12MS/ 2,0-186/M12FS - 1509555



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 2 m

Sensor/Actuator cable - SAC-4P-M12MS/ 5,0-186/M12FS - 1509568



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 5 m

Sensor/Actuator cable - SAC-4P-M12MS/10,0-186/M12FS - 1509571



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 10 m

Sensor/Actuator cable - SAC-4P-M12MS/15,0-186/M12FS - 1509584



Sensor/Actuator cable, 4-position, PUR, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 15 m

### Terminal marking

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### Accessories

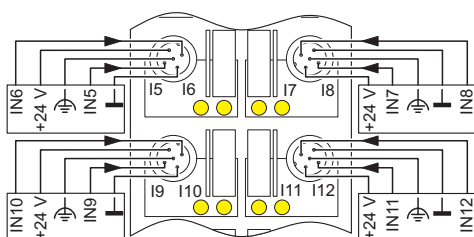
Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735



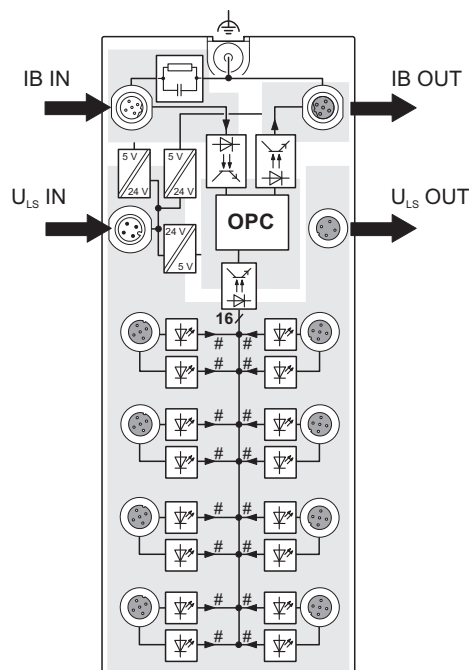
Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 5.15 x 12.15 mm

### Drawings

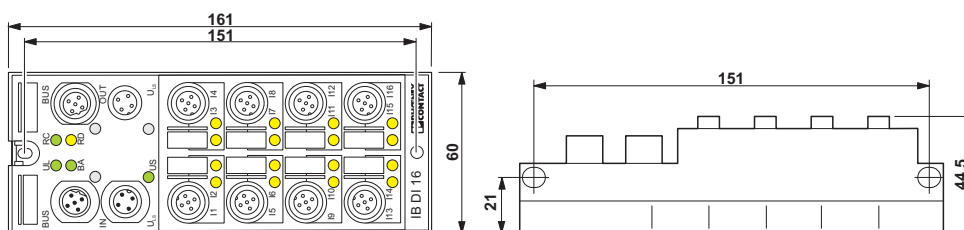
Connection diagram



Block diagram



Dimensional drawing



Dimensions of the module



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