Distributed I/O device - FLS IB M12 DI 8 M12 - 2736013

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The stand-alone device for INTERBUS has 8 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 600 mA.

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)	336.5 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

Dimensions

Width	60 mm
Height	161 mm
Depth	44.5 mm

Distributed I/O device - FLS IB M12 DI 8 M12 - 2736013

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Dimensions

Drill hole spacing	151 mm

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

Net weight	310 g
Mounting type	Wall mounting

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_L
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)

Fieldline potentials

Voltage supply U_L	24 V DC
Power supply at U_L	max. 4 A
Current consumption from U_L	typ. 65 mA
	max. 100 mA
Voltage supply U_S	24 V DC
Power supply at U_S	max. 4 A
Current consumption from U_S	typ. 5 mA (plus sensor current)
	max. 700 mA

Digital inputs

Input name	Digital inputs

Distributed I/O device - FLS IB M12 DI 8 M12 - 2736013

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Digital inputs

Connection method	M12 connector
	2, 3, 4-wire
Number of inputs	8 (EN 61131-2 type 1)
Protective circuit	Protection against polarity reversal
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

Standards and Regulations

Test section	24 V supply (bus logics) / FE 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Digital inputs (sensor supply / I/O) 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Incoming remote bus 500 V AC 50 Hz 1 s
	24 V supply (bus logics) / Outgoing remote bus 500 V AC 50 Hz 1 s
	Digital inputs (sensor supply / I/O) / FE 500 V AC 50 Hz 1 s
	Digital inputs (sensor supply / I/O) / Incoming remote bus 500 V AC 50 Hz 1 s
	Digital inputs (sensor supply / I/O) / Outgoing remote bus 500 V AC 50 Hz 1 s
	Incoming remote bus / FE 500 V AC 50 Hz 1 s
	Incoming remote bus / Outgoing remote bus 500 V AC 50 Hz 1 s
	Outgoing remote bus / FE 500 V AC 50 Hz 1 s
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

Distributed I/O device - FLS IB M12 DI 8 M12 - 2736013

Classifications

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
UNSPSC 13.2	43201404

Approvals

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Approvals

UL Recognized / cUL Recognized / INTERBUS CLUB / EAC / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approvals submitted

Approval details

UL Recognized

cUL Recognized

INTERBUS CLUB

Distributed I/O device - FLS IB M12 DI 8 M12 - 2736013

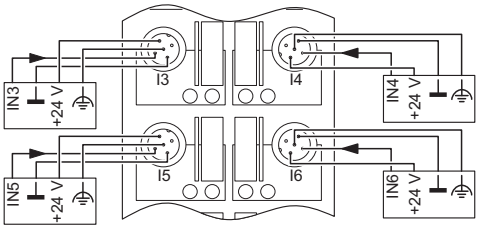
Approvals

EAC

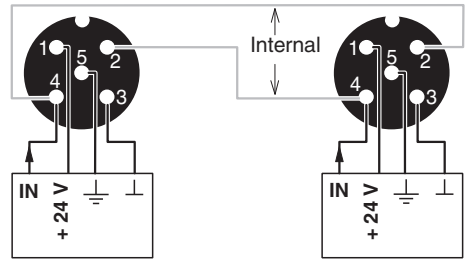
cULus Recognized

Drawings

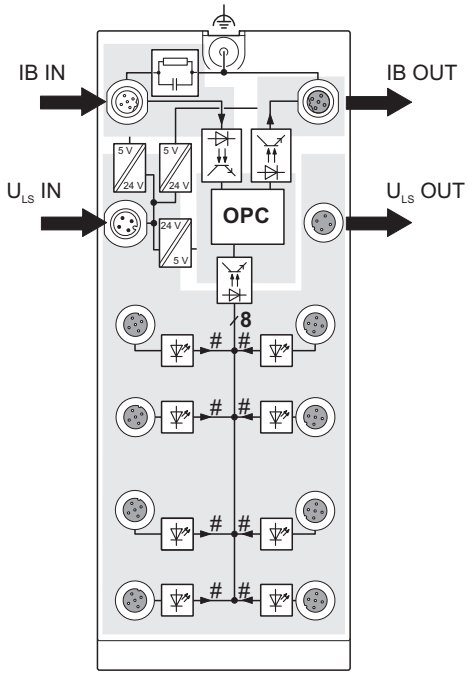
Connection diagram



Connection diagram



Block diagram



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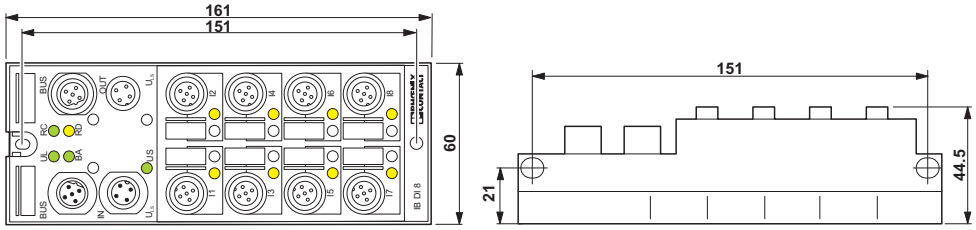
Dimensional drawing



Dimensions of the module