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

2736314

https://www.phoenixcontact.com/us/products/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.

Your advantages

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

Commercial data

Item number	2736314
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI4A1
GTIN	4017918943240
Weight per piece (including packing)	338.7 g
Weight per piece (excluding packing)	310 g
Customs tariff number	85176200
Country of origin	CN

Technical data

Dimensions

Dimensional drawing	
Width	60 mm
Height	161 mm
Depth	44.5 mm
Drill hole spacing	151 mm

Interfaces

INTERBUS

Connection method	2x M12 connectors, B-coded
Designation connection point	Copper cable
Number of positions	5
Transmission speed	500 kbps

System properties

System limits

Number of local bus devices that can be connected	0
Number of devices with parameter channel	0

Programming data

Length code (hex)	01
ID code (dec.)	2
Length code (dec)	1
Process data channel	16 bit
Input address area	16 bit
Output address area	0 bit
Parameter channel (PCP)	0 bit
Register length (bus)	16 bit

Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	16
Connection method	M12 connector double occupancy
Connection technology	2-, 3-, 4-conductor
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
Nominal input voltage U_{IN}	24 V DC
Total sensor current	max. 1200 mA
Filter time	1 ms
Protective circuit	Reverse polarity protection

Product properties

Product type	I/O component
Product family	Fieldline
Type	Block design
No. of channels	16

Electrical properties

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. 8 mA (plus sensor current)
	max. 1.2 A

Supply: 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)

Electrical isolation/isolation of the voltage ranges

Test voltage: To I/O	500 V AC

Connection data

Connection method	M12 connector

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP65/IP67
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)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %

Standards and regulations

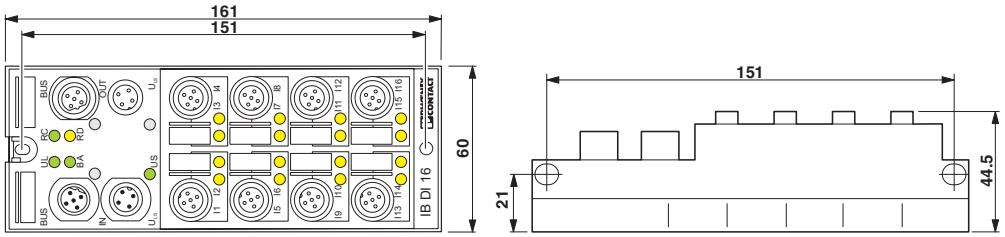
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type	Panel mounting

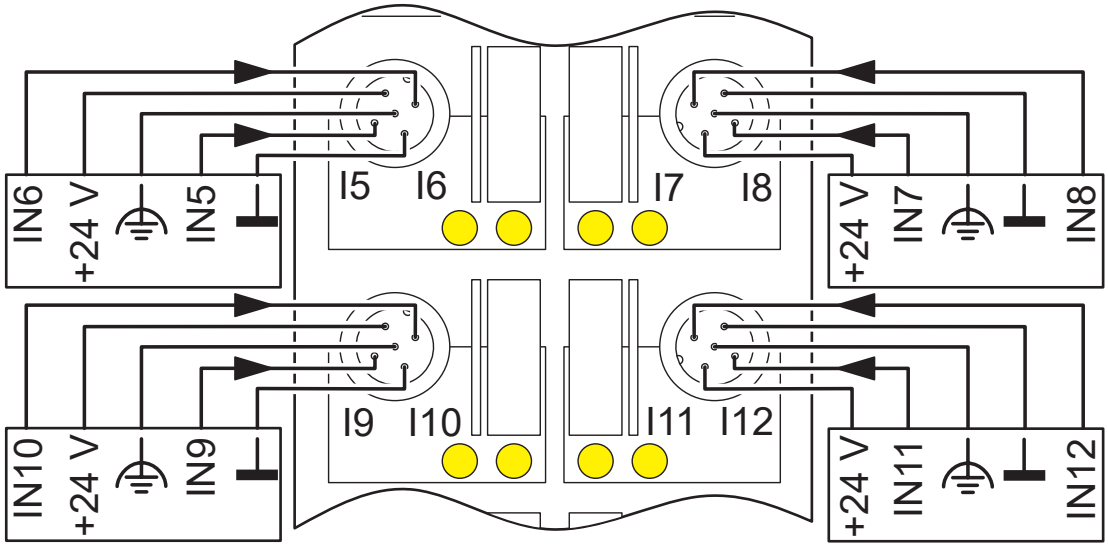
Drawings

Dimensional drawing

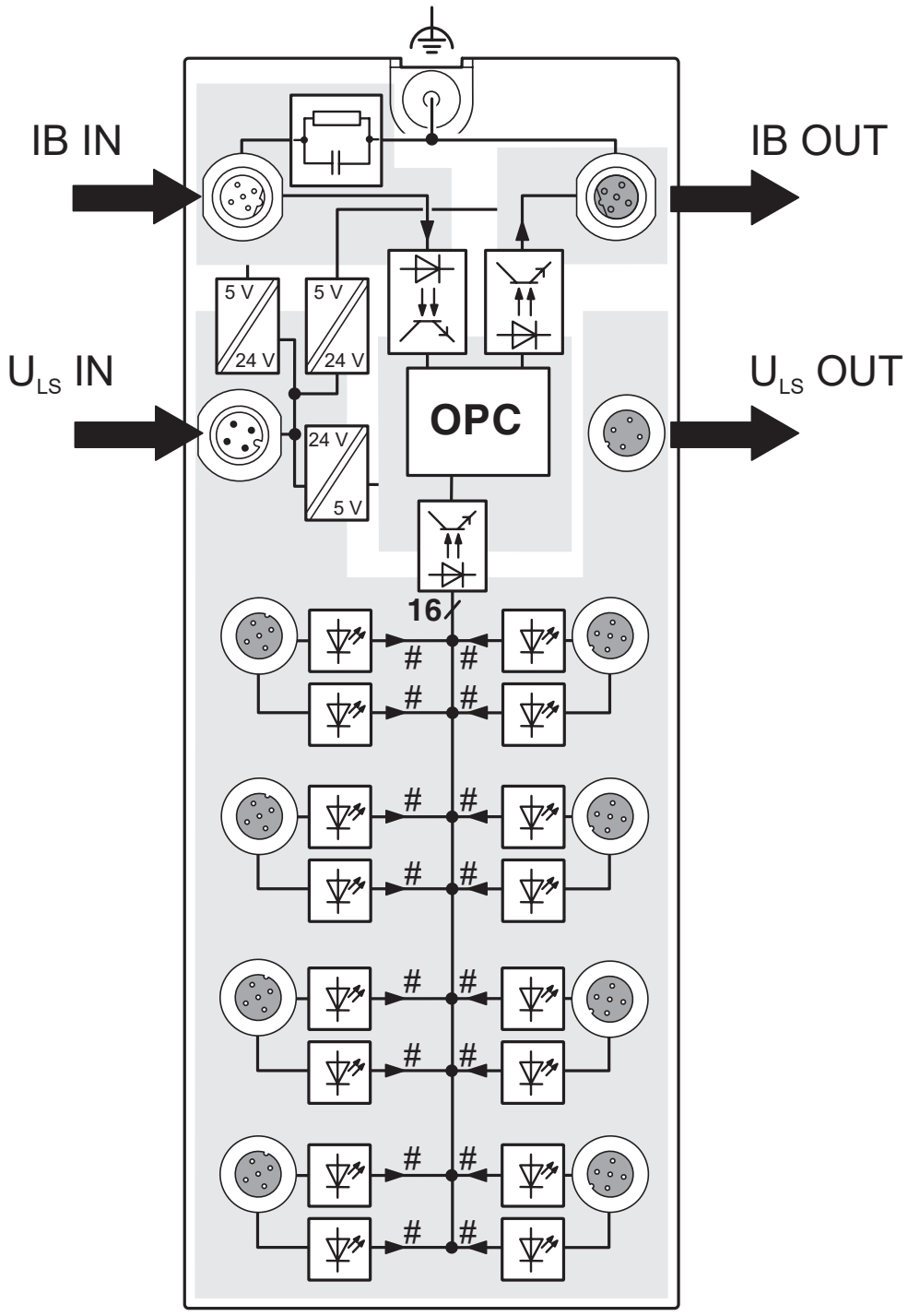


Dimensions of the module

Connection diagram



Block diagram



Classifications

UNSPSC

UNSPSC 21.0	32151602

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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