

# FLS PB M12 DI 16 M12 - Distributed I/O device



2736220

<https://www.phoenixcontact.com/us/products/2736220>

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The stand-alone device for PROFIBUS 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

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

## Commercial data

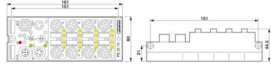
Item number	2736220
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI4A2
GTIN	4017918916343
Weight per piece (including packing)	343.9 g
Weight per piece (excluding packing)	292.34 g
Customs tariff number	85389099
Country of origin	CN

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## Technical data

### Dimensions

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

### Interfaces

#### PROFIBUS DP

Connection method	2x M12 connectors, B-coded
Designation connection point	Copper cable
Number of positions	5
Transmission speed	9.6 kbps ... 12 Mbps (Automatic baud rate detection)
Transmission physics	PROFIBUS-DP-compliant copper cable
Address area assignment	1 ... 99, can be set

### System properties

#### System limits

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

#### Programming data

Input address area	16 bit
Output address area	0 bit
Parameter channel (PCP)	0 bit
Register length (bus)	8 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

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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

Maximum power dissipation for nominal condition	31.2 W
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### Potentials

Voltage supply $U_L$	24 V DC
Power supply at $U_L$	max. 4 A
Current consumption from $U_L$	typ. 35 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: 24 V supply (bus logics) / FE	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (bus logics) / Digital inputs (sensor supply)	500 V AC, 50 Hz, 1 min
Test voltage: Bus connection / FE	500 V AC, 50 Hz, 1 min
Test voltage: Bus connection / Digital inputs (sensor supply)	500 V AC, 50 Hz, 1 min
Test voltage: FE / Digital inputs (sensor supply)	500 V AC, 50 Hz, 1 min

## Connection data

Connection method	M12 connector
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## 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)

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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)
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## Mounting

Mounting type	Panel mounting
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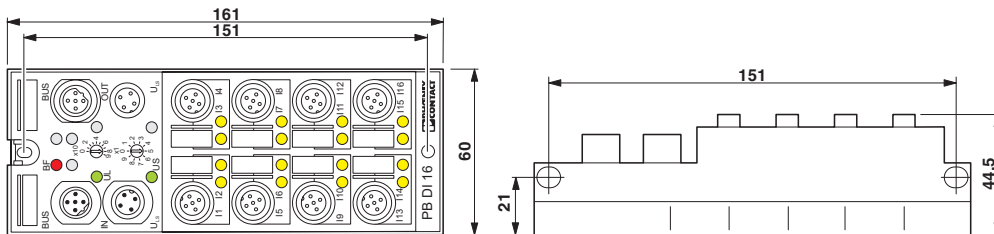


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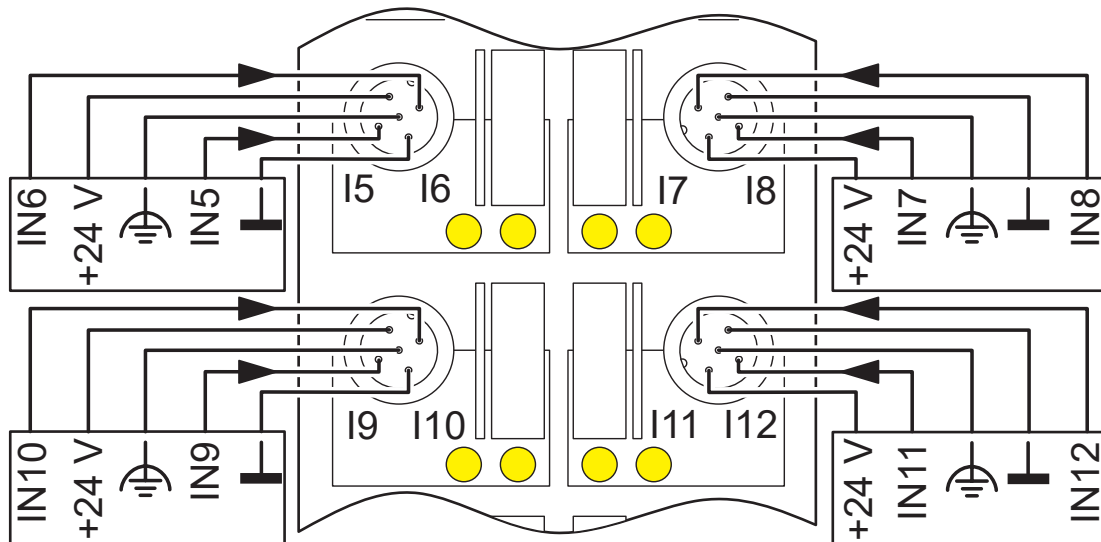
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## Drawings

Dimensional drawing



Connection diagram

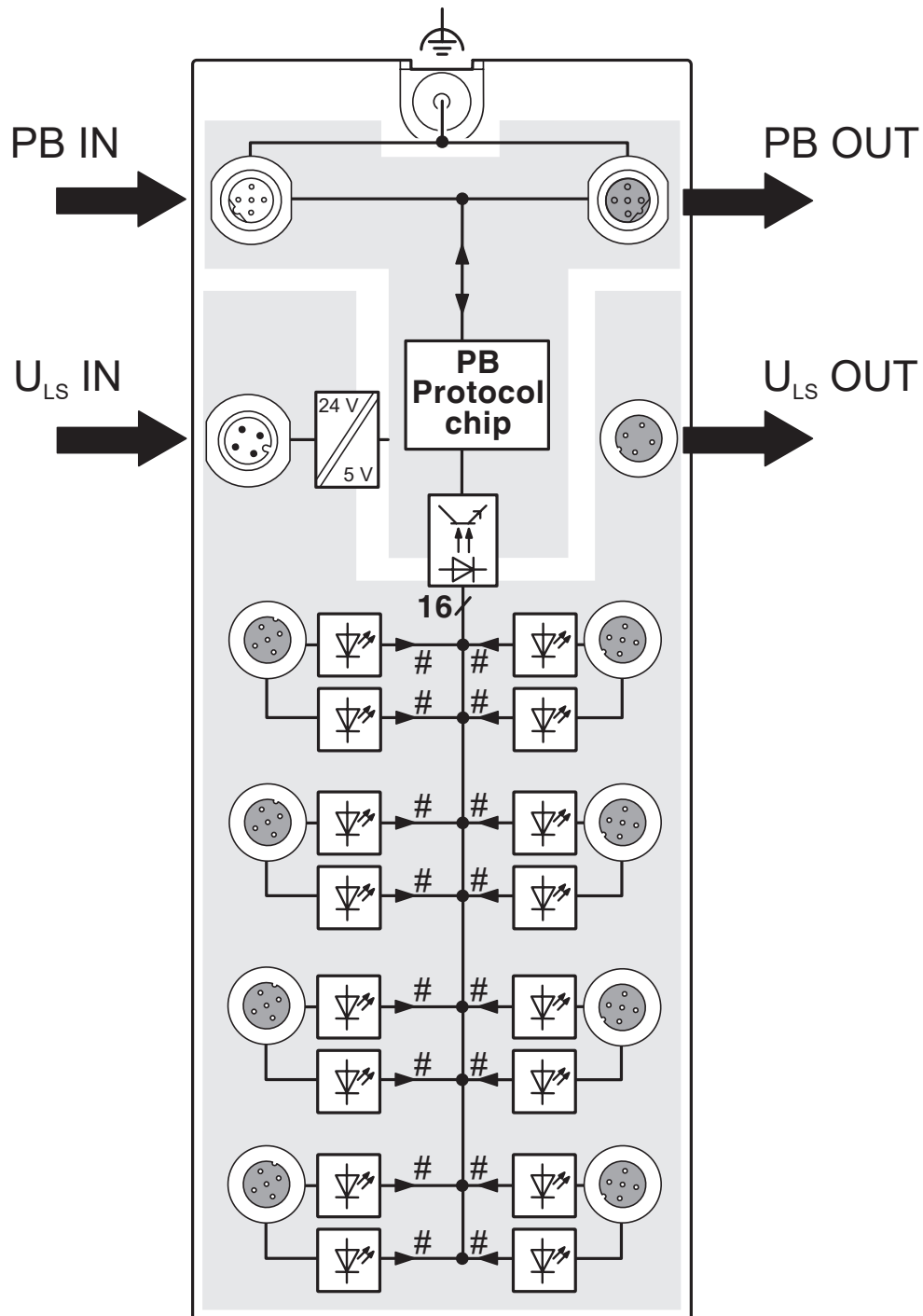


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Block diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	32151602
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## 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.)	Lead(CAS: 7439-92-1)
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