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Especialistas en Automatización

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

### Why buy this product

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



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 916343

### 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
Drill hole spacing	151 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

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## Technical data

### Ambient conditions

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	292.34 g
Mounting type	Wall mounting

### Interfaces

Fieldbus system	PROFIBUS DP
Designation	PROFIBUS DP
Connection method	2x M12 connectors, B-coded
Designation connection point	Copper cable
Transmission speed	9,6 kBit/s ... 12 MBit/s (Automatic baud rate detection)
Transmission physics	PROFIBUS-DP-compliant copper cable
Address area assignment	1 ... 99, can be set
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. 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

### Digital inputs

Input name	Digital inputs
Connection method	M12 connector, double occupancy
	2, 3, 4-wire
Number of inputs	16 (EN 61131-2 type 1)
Protective circuit	Protection against polarity reversal
Filter time	1 ms
Input voltage	24 V DC

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## Technical data

### Digital inputs

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) / Bus connection
	24 V supply (bus logics) / FE 500 V AC 50 Hz 1 min.
	24 V supply (bus logics) / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min.
	Bus connection / FE 500 V AC 50 Hz 1 min.
	Bus connection / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min.
	FE / Digital inputs (sensor supply) 500 V AC 50 Hz 1 min.
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
UNSPSC 13.2	43201404

## Approvals

### Approvals

# Distributed I/O device - FLS PB M12 DI 16 M12 - 2736220

## Approvals

Approvals

UL Recognized / cUL Recognized / PROFIBUS / EAC / cULus Recognized

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Ex Approvals


UL Recognized / cUL Recognized / cULus Recognized


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Approvals submitted

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## Approval details

UL Recognized 

cUL Recognized 

PROFIBUS

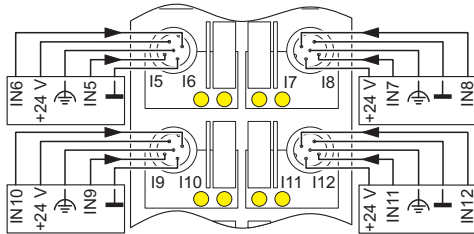
EAC

cULus Recognized 

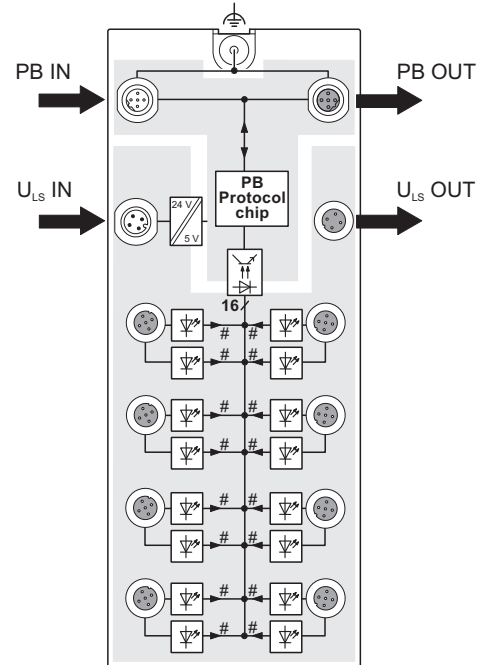
## Drawings

# Distributed I/O device - FLS PB M12 DI 16 M12 - 2736220

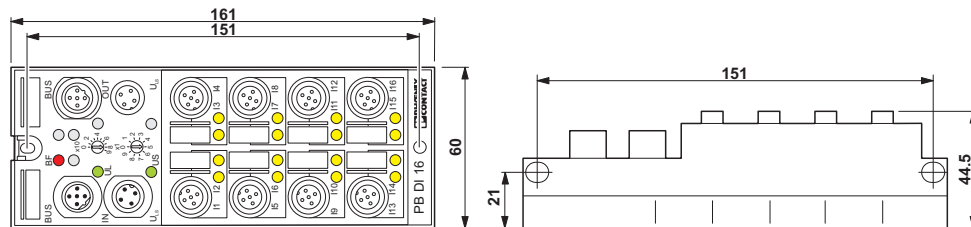
Connection diagram



Block diagram



Dimensional drawing



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Product	Code	Reference	Product link
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