

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.

Your advantages

- 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 pc |
| GTIN |  4 017918 916343 |
| GTIN | 4017918916343 |
| Weight per Piece (excluding packing) | 292.340 g |
| Custom tariff number | 85389099 |
| 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 |

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Technical data

Dimensions

| | |
|--------------------|---------|
| 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 |
| 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 | 292.34 g |

Interfaces

| | |
|------------------------------|--|
| Designation | PROFIBUS DP |
| Connection method | 2x M12 connectors, B-coded |
| Designation connection point | Copper cable |
| 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 |
| 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 |
| Description of the input | IEC 61131-2 type 1 |
| Connection method | M12 connector, double occupancy |

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Digital inputs

| | |
|--------------------------------|-----------------------------|
| Connection technology | 2, 3, 4-wire |
| Number of inputs | 16 |
| Protective circuit | Reverse polarity protection |
| Nominal input voltage U_{IN} | 24 V DC |
| Filter time | 1 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 |

Electrical isolation

| | |
|--------------|---|
| 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. |

Standards and Regulations

| | |
|----------------------------------|---------------------------------------|
| Connection in acc. with standard | CUL |
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250300 |
| eCl@ss 4.1 | 27250300 |
| eCl@ss 5.0 | 27250300 |
| eCl@ss 5.1 | 27242600 |
| eCl@ss 6.0 | 27242600 |
| eCl@ss 7.0 | 27242604 |
| eCl@ss 8.0 | 27242604 |
| eCl@ss 9.0 | 27242604 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001430 |
| ETIM 3.0 | EC001599 |



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Classifications

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC001599 |
| ETIM 5.0 | EC001599 |
| ETIM 6.0 | EC001599 |
| ETIM 7.0 | EC001599 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 32151602 |

Approvals

Approvals


Approvals

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

Ex Approvals


UL Recognized / cUL Recognized / cULus Recognized

Approval details

| | | | |
|---------------|---|---|---------------|
| UL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
|---------------|---|---|---------------|

| | | | |
|----------------|---|---|---------------|
| cUL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
|----------------|---|---|---------------|

| | |
|----------|--------|
| PROFIBUS | Z00935 |
|----------|--------|

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|-----|---|--------------------------|
| EAC |  | RU *- DE.A*30.B.01735 |
|-----|---|--------------------------|

| | |
|------------------|---|
| cULus Recognized |  |
|------------------|---|

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



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