

FLS PB M12 DIO 4/4 M12-2A - Distributed I/O device



2736107

<https://www.phoenixcontact.com/us/products/2736107>

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The stand-alone device for PROFIBUS has 4 digital inputs and 4 digital outputs each with a load capacity of 2 A. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload.

Product description

This device is used for digital signal acquisition and output.

Your advantages

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

Commercial data

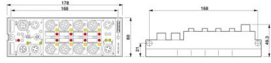
Item number	2736107
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI4A2
GTIN	4017918899592
Weight per piece (including packing)	380.7 g
Weight per piece (excluding packing)	340 g
Customs tariff number	85389099
Country of origin	CN

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Technical data

Dimensions

Dimensional drawing	
Width	60 mm
Height	178 mm
Depth	49.3 mm
Drill hole spacing	168 mm

Material specifications

Color	green
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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	8 bit
Output address area	8 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	4
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor
Input voltage	24 V DC

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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
Filter time	3 ms
Protective circuit	Reverse polarity protection

Output data

Digital:

Output name	Digital outputs
Connection method	M12 connector
Connection technology	2-, 3-conductor
Number of outputs	4
Protective circuit	Short-circuit protection
Output voltage	24 V DC
Maximum output current per channel	2 A

Product properties

Product type	I/O component
Product family	Fieldline
Type	Block design
No. of channels	8

Electrical properties

Potentials

Voltage supply U_L	24 V DC
Power supply at U_L	max. 4 A
Current consumption from U_L	typ. 40 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
Voltage supply U_{A11}	24 V DC
Power supply at U_{A11}	max. 4 A
Current consumption at U_{A11}	typ. 6 mA (plus actuator current) max. 4 A
Voltage supply U_{A12}	24 V DC
Power supply at U_{A12}	max. 4 A
Current consumption at U_{A12}	typ. 6 mA (plus actuator current) max. 4 A

Supply: Module electronics

Connection method	M12 connector, A-coded
Designation	U_L

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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) / Bus connection	500 V AC, 50 Hz, 1 min
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 / I/O)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (bus logics) / Digital outputs (actuator 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: Bus connection / Digital outputs (actuator supply)	500 V AC, 50 Hz, 1 min
Test voltage: FE / Digital outputs (actuator supply)	500 V AC, 50 Hz, 1 min
Test voltage: FE / Digital inputs (sensor supply)	500 V AC, 50 Hz, 1 min
Test voltage: Digital outputs (actuator supply) / Digital outputs (actuator 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)
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

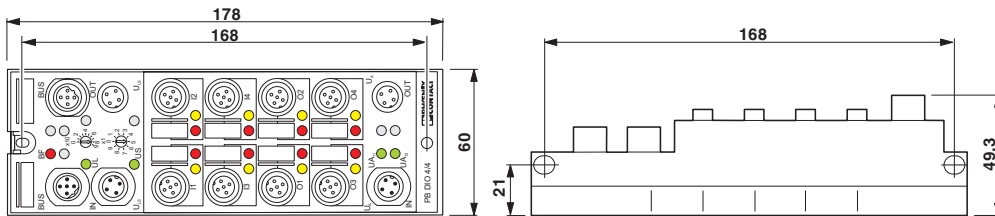
Mounting type	Panel mounting
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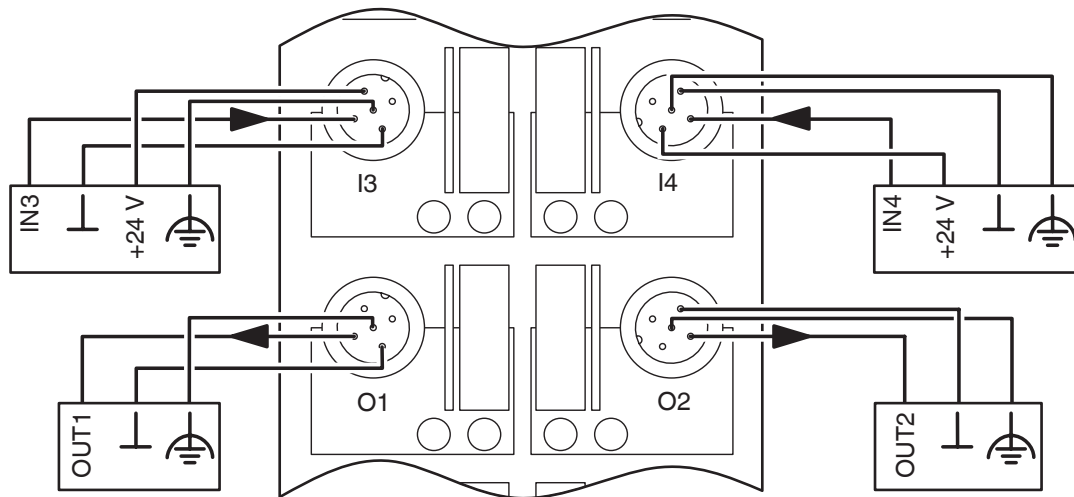
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Drawings

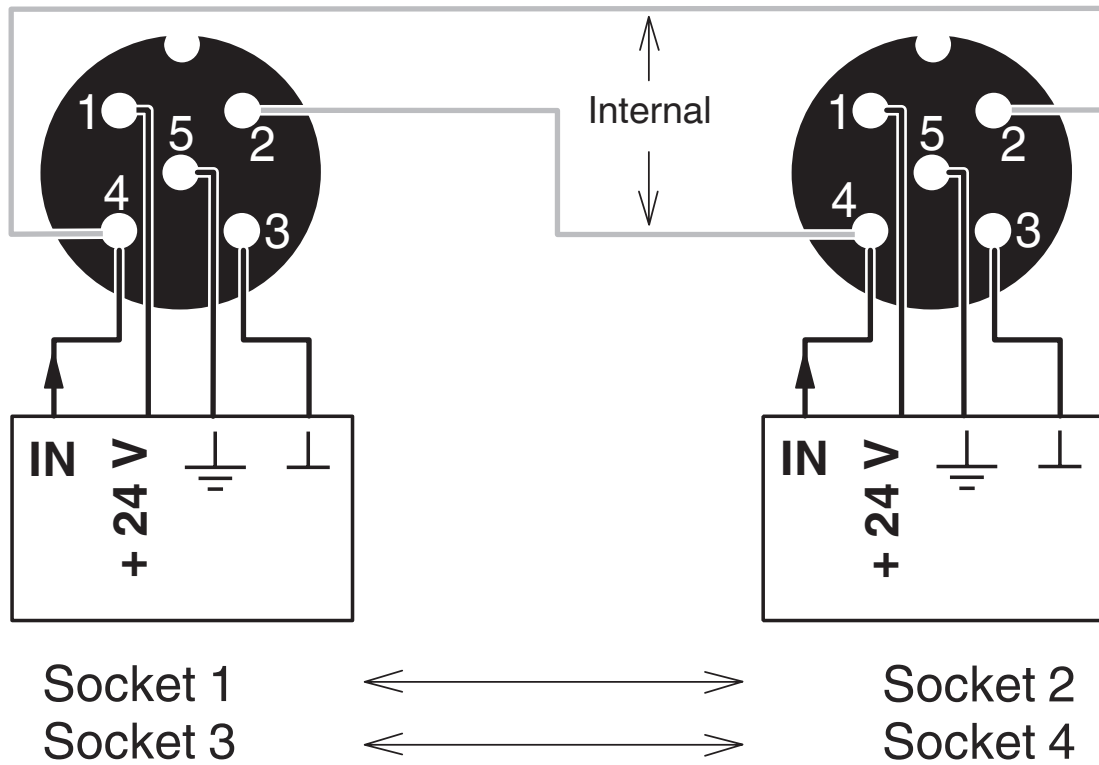
Dimensional drawing



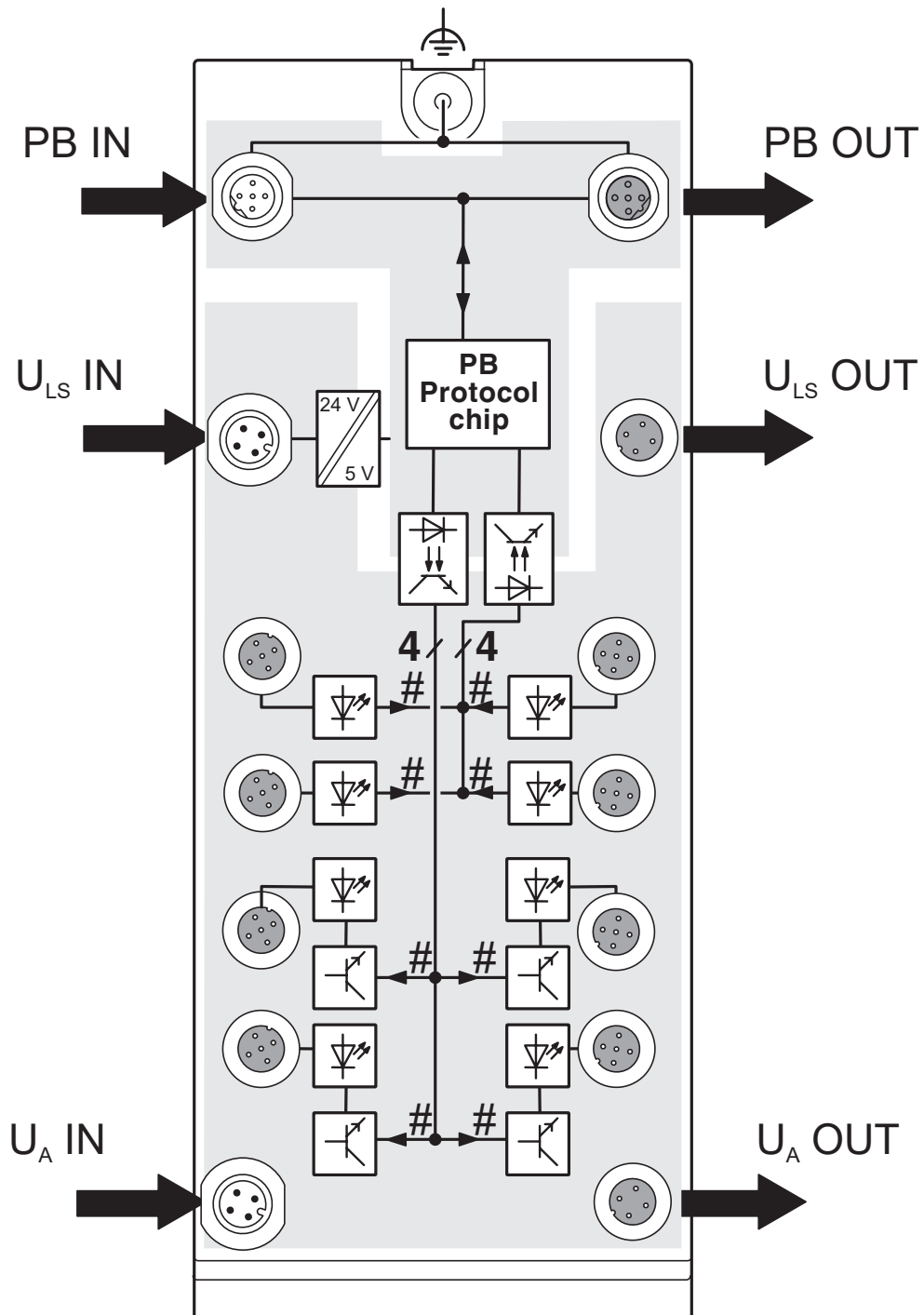
Connection diagram



Connection diagram



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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