

# FLM BK PN M12 DI 8 M12-2TX - Bus coupler



2736741

<https://www.phoenixcontact.com/us/products/2736741>

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The PROFINET bus coupler opens a local bus for up to 16 devices. Additional functions: 100 Mbps, auto negotiation, auto crossover, SNMP, TFTP, LLDP, 8 digital inputs, channel-specific diagnostics, short-circuit/overload protection, M12 fast connection technology.

## Your advantages

- PROFINET
- 8 inputs, 24 V DC
- M12 connection technology with SPEEDCON fast locking system

## Commercial data

Item number	2736741
Packing unit	1 pc
Sales key	DR03
Product key	DRI41A
GTIN	4046356042659
Weight per piece (including packing)	335.2 g
Weight per piece (excluding packing)	335.2 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Dimensions

Dimensional drawing	
Width	70 mm
Height	178 mm
Depth	50 mm
Drill hole spacing	168 mm

### Material specifications

Color	anthracite
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### Interfaces

#### PROFINET

Connection method	M12 connector, D-coded
Designation connection point	Copper cable
Number of positions	4
Transmission speed	100 Mbps (auto negotiation)

#### PROFINET

Transmission speed	100 Mbps
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#### Fieldbus: Local bus gateway

Designation	Local bus gateway
Connection method	M12 connector, B-coded
Transmission speed	500 kbaud/2 Mbaud, can be selected
Max. length of local bus	20 m
Max. number of local bus devices	16

### System properties

#### System limits

Amount of process data	max. 488 Byte (max. 244 bytes IN - max. 244 bytes OUT)
Number of local bus devices that can be connected	max. 16
Number of devices with parameter channel	max. 16

#### Programming data

Process data channel	8 bit
Input address area	8 bit

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Output address area	0 bit
Parameter channel (PCP)	0 bit
Register length (bus)	8 bit
Register length (master)	512 Byte

## Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	8 (IEC 61131-2 type 1)
Connection method	M12 connector
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
Filter time	3 ms
Protective circuit	Short-circuit protection, overload protection of the sensor supply; Reverse polarity protection

## Product properties

Product type	I/O component
Type	modular
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 $U_L$	max. 118 mA (At 2 Mbaud)
	typ. 118 mA (At 2 Mbaud)
	max. 60 mA (At 500 kBaud)
	typ. 60 mA (At 500 kBaud)
Voltage supply $U_S$	24 V DC
Power supply at $U_S$	max. 4 A
Current consumption from $U_S$	typ. 5 mA (plus power supply for sensors)
	max. 600 mA

Potentials

Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC

Potentials

Supply voltage	24 V DC
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## Supply: Module electronics

Connection method	M12 connector
Designation	U <sub>L</sub>
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)
Supply current	< 100 mA

## Electrical isolation/isolation of the voltage ranges

Test voltage: To I/O	500 V DC
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## Connection data

Connection method	M12 connector
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP65/IP67
Note	Seal unused slots/connections to ensure the degree of protection.
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

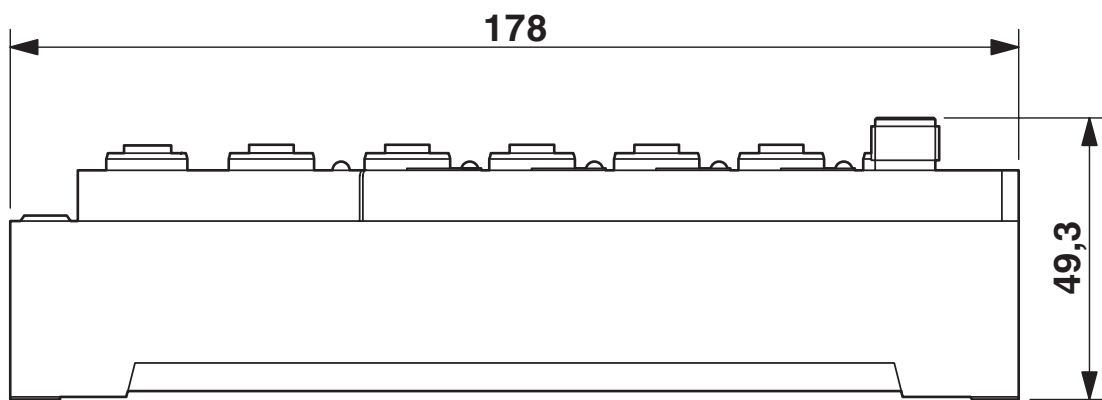
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

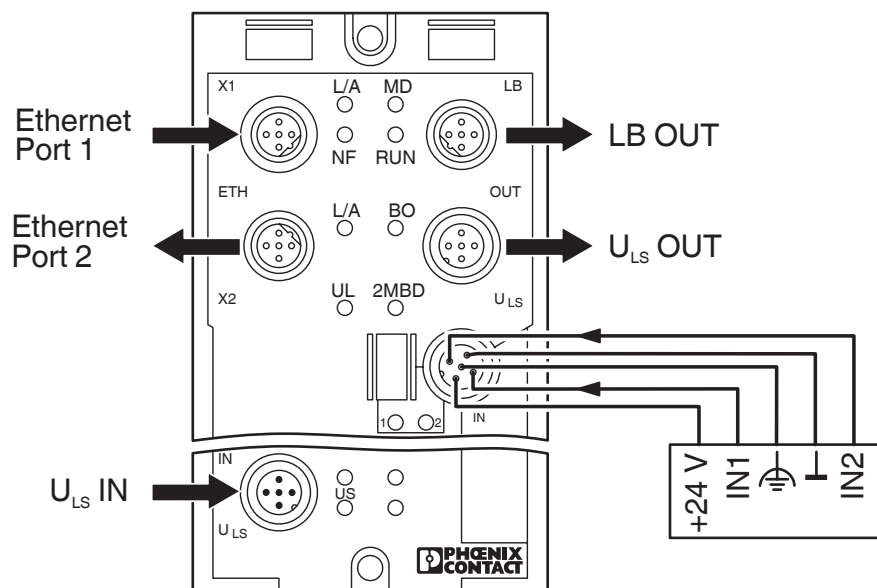
Mounting type	Panel mounting, optionally on mounting panel
	Panel mounting

## Drawings

Dimensional drawing



Connection diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	32151600
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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-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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