

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

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

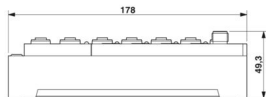


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Technical data

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

Number of local bus devices that can be connected	max. 16
Number of devices with parameter channel	max. 16

Module

ID code (hex)	none
Process data channel	8 bit
Input address area	8 bit

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Output address area	0 bit
Register length	8 bit

Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	8 (EN 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
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Designation	U _L
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

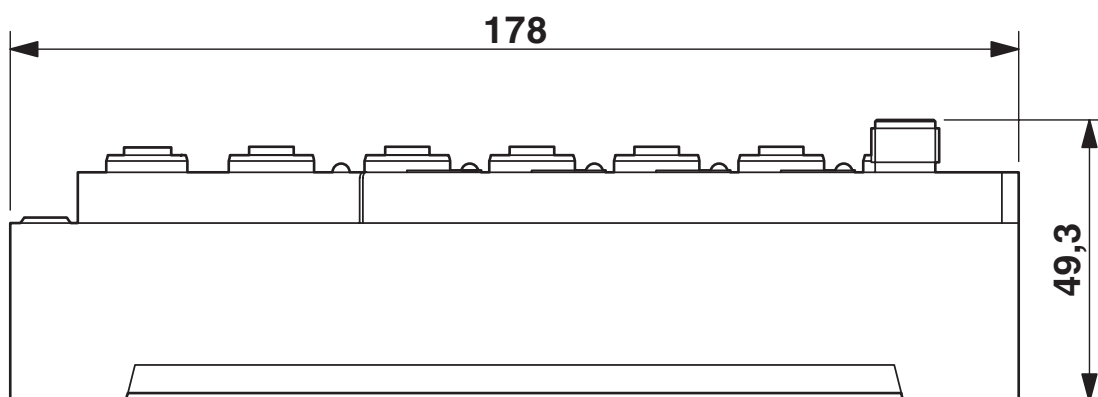
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

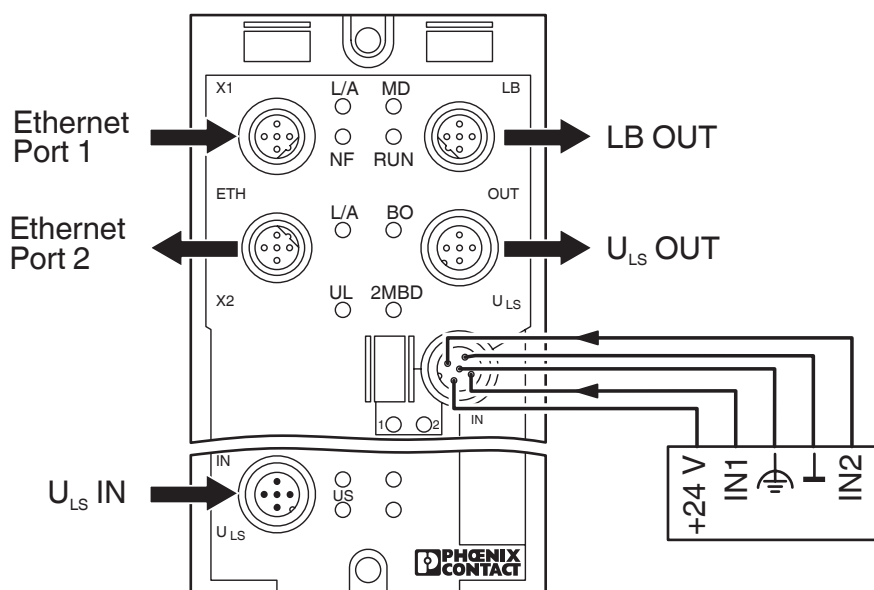
Mounting type	Panel mounting, optionally on mounting panel
	Panel mounting

Drawings

Dimensional drawing



Connection diagram



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Classifications

ETIM

ETIM 8.0	EC001604
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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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