

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



2773322

<https://www.phoenixcontact.com/us/products/2773322>

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The EtherNet/IP™ bus coupler opens a local bus for up to 16 devices. Additional functions: 10 Mbps and 100 Mbps, auto negotiation, auto crossover, 8 digital inputs, channel-specific diagnostics, short-circuit/overload protection, M12 fast connection technology.

## Your advantages

- EtherNet/IP™
- 8 inputs, 24 V DC
- M12 connection technology with SPEEDCON fast locking system

## Commercial data

Item number	2773322
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR03
Product key	DRI41D
GTIN	4046356166096
Weight per piece (including packing)	343.4 g
Weight per piece (excluding packing)	280 g
Customs tariff number	85176200
Country of origin	DE

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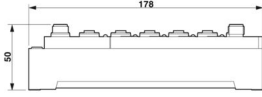


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## Technical data

### Dimensions

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

### Material specifications

Color	anthracite
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### Interfaces

#### EtherNet/IP™

Connection method	M12 connector, D-coded
Designation connection point	Copper cable
Number of positions	4
Transmission speed	10/100 Mbps (auto negotiation)

#### 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

#### Programming data

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

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## Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	8
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
Product family	Fieldline
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

Supply: Module electronics

Connection method	M12 connector
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 ... 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, optionally on mounting panel
	Panel mounting

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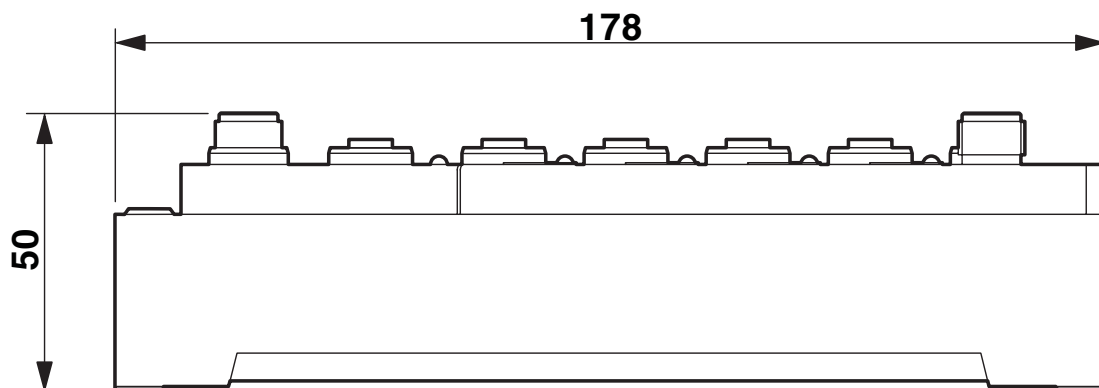


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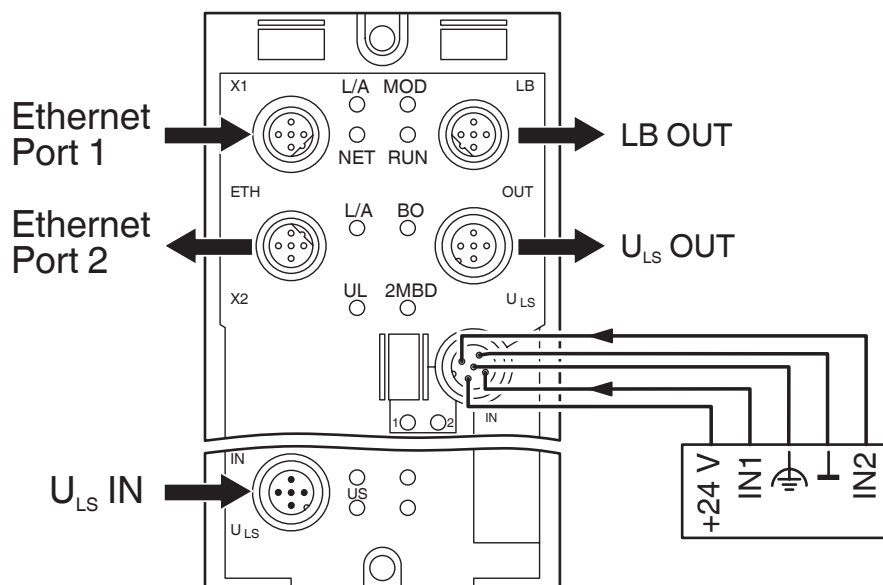
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## Drawings

Dimensional drawing



Connection diagram



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## Classifications

### ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

### ETIM

ETIM 10.0	EC001599
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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-E
	No hazardous substances above the limits

### EU REACH SVHC

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