

## Bus coupler - FLM BK PB M12 DI 8 M12-EF - 2773377

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The PROFIBUS bus coupler opens a local bus for up to 16 standard or PCP devices. Additional functions: I&M functions, 8 digital inputs, channel-specific diagnostics, dynamic configuration, short-circuit/overload protection, M12 fast connection technology.

### Product Description


Fieldline modular bus coupler for PROFIBUS with four digital inputs

### Your advantages

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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 583879
GTIN	4046356583879

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

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

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %

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## Technical data

### Ambient conditions

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	280 g
Mounting type	Wall mounting, optionally on mounting plate

### Interfaces

Designation	PROFIBUS DP
Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Transmission speed	9.6 kbps ... 12 Mbps
Address area assignment	1 ... 126, adjustable
Number of positions	5

### Local bus gateway

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

### Power supply for 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)

### Fieldline potentials

Voltage supply $U_L$	24 V DC
Power supply at $U_L$	max. 4 A
Current consumption from $U_L$	max. 100 mA (At 2 Mbaud)
	typ. 75 mA (At 2 Mbaud)
	max. 100 mA (At 500 kBaud)
	typ. 75 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. 15 mA (plus power supply for sensors)
	max. 600 mA

### Digital inputs

Input name	Digital inputs
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### Digital inputs

Description of the input	IEC 61131-2 type 1
Connection method	M12 connector
Connection technology	2, 3, 4-wire
Number of inputs	8 (double-occupancy)
Filter time	3 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	To I/O 500 V AC
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### Standards and Regulations

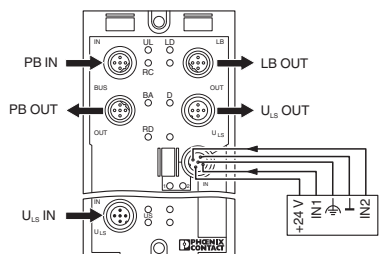
Connection in acc. with standard	CUL
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

### Environmental Product Compliance

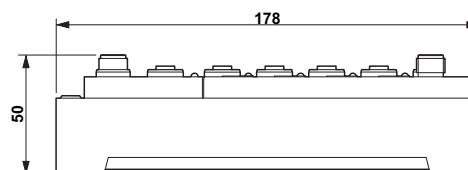
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Connection diagram



Dimensional drawing



## Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

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### Approvals


Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

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#### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
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cULus Recognized			
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