

FLM BK IB M12 DI 8 M12 - Bus coupler



2736301

<https://www.phoenixcontact.com/us/products/2736301>

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The INTERBUS bus coupler opens a local bus for up to 16 devices. Additional functions: easy plug and play installation, 8 digital inputs, channel-specific diagnostics, short-circuit and overload protection, M12 fast connection technology.

Product description

Fieldline modular bus coupler for INTERBUS with eight digital inputs

Your advantages

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

Commercial data

Item number	2736301
Packing unit	1 pc
Sales key	DR03
Product key	DRI411
GTIN	4017918951061
Weight per piece (including packing)	327.4 g
Weight per piece (excluding packing)	280 g
Customs tariff number	85176200
Country of origin	DE

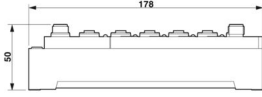
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Technical data

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

INTERBUS

Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Number of positions	5
Transmission speed	500 kbps / 2 Mbps (can be switched)

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

Length code (hex)	81
ID code (dec.)	190
Process data channel	8 bit
Input address area	1 Byte
Output address area	0 Byte
Parameter channel (PCP)	0 bit

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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 (double-occupancy)
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	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. 100 mA (At 2 Mbaud)
	typ. 75 mA (At 2 Mbaud)
	max. 100 mA (At 500 kBaud)
	typ. 65 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)

Electrical isolation/isolation of the voltage ranges

Test voltage: 24 V supply (bus logics) / FE	500 V AC, 50 Hz, 1 s
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Test voltage: 24 V supply (bus logics) / Digital inputs (sensor supply / I/O)	500 V AC, 50 Hz, 1 s
Test voltage: 24 V supply (bus logics) / Digital outputs (actuator supply)	500 V AC, 50 Hz, 1 s
Test voltage: 24 V supply (bus logics) / Incoming remote bus	500 V AC, 50 Hz, 1 s
Test voltage: 24 V supply (bus logics) / Outgoing remote bus	500 V AC, 50 Hz, 1 s
Test voltage: Digital inputs (sensor supply / I/O) / FE	500 V AC, 50 Hz, 1 s
Test voltage: Digital inputs (sensor supply) / Digital outputs (actuator supply)	500 V AC, 50 Hz, 1 s
Test voltage: Digital inputs (sensor supply / I/O) / Incoming remote bus	500 V AC, 50 Hz, 1 s
Test voltage: Digital inputs (sensor supply / I/O) / Outgoing remote bus	500 V AC, 50 Hz, 1 s

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 %

Mechanical test

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Load 30g, half sine wave, positive and negative per direction
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g in each space direction

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

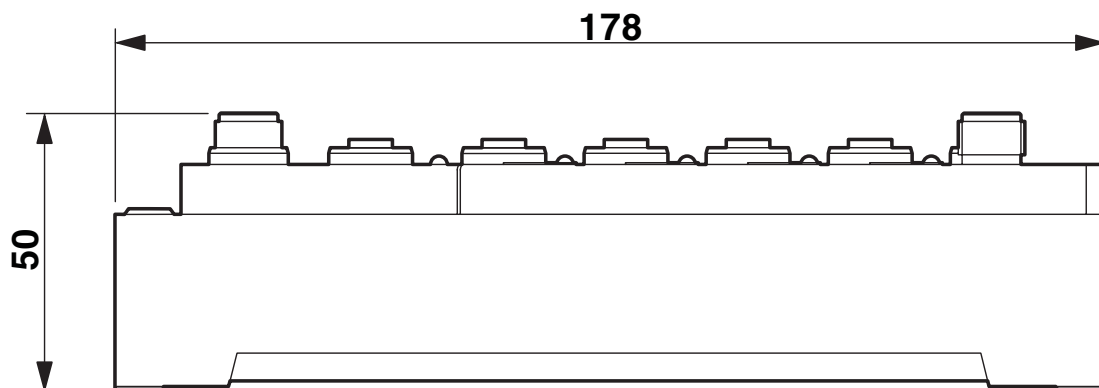
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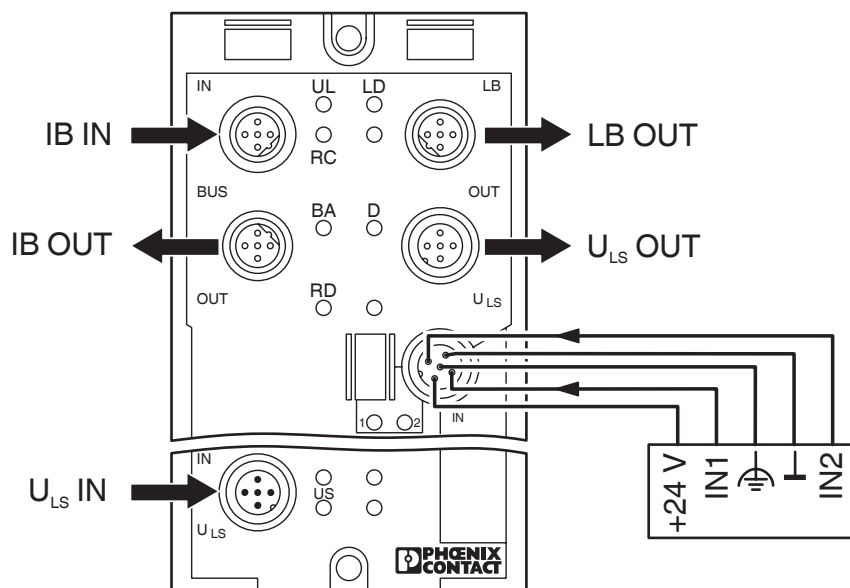
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Drawings

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-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com