

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

Why buy this product

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



Key commercial data

Packing unit	1 pc
GTIN	 4 046356 166096
Weight per Piece (excluding packing)	352.8 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Dimensions

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

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %
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	IP65/67

General

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Technical data

General

Weight	280 g
Mounting type	Wall mounting
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	To I/O 500 V DC

Interfaces

Fieldbus system	EtherNet/IP™
Name	Ethernet / IP
Connection method	M12 connectors, D-coded
Designation connection point	Copper cable
Transmission speed	10/100 MBit/s (autonegotiation)
Number of positions	4

Local bus gateway

Name	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
Name	U _L
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC IEC 61131-2 (including ripple)
Supply current	< 100 mA

Fieldline 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

Digital inputs

Input name	Digital inputs
Connection method	M12 connector
	2, 3, 4-wire

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Digital inputs

Number of inputs	8 (EN 61131-2 type 1)
Protective circuit	Short-circuit protection, overload protection of the sensor supply Protection against polarity reversal
Filter time	3 ms
Input characteristic curve	IEC 61131-2 type 1
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

Classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
eCl@ss 5.1	27242608
eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

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UL Recognized / cUL Recognized / UL Recognized / cUL Recognized / cULus Recognized

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Approvals

Ex Approvals

UL Recognized / cUL Recognized / UL Recognized / cUL Recognized / cULus Recognized

Approvals submitted

Approval details

UL Recognized

cUL Recognized

UL Recognized

cUL Recognized

cULus Recognized

Accessories

Accessories

Circular connector (cable-side)

Bus system connector - SACC-M12MSD-4CON-PG 7-SH - 1521258



Bus system connector, PROFINET CAT5 (100 Mbps), PROFINET CAT5e (100 Mbps), 4-position, shielded, Plug straight M12, D-coded, Screw connection, Knurl material: Nickel-plated brass, Cable gland Pg7, External cable diameter 4 mm ... 6 mm

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Accessories

Bus system connector - SACC-M12MSD-4CON-PG 9-SH - 1521261



Bus system connector, PROFINET CAT5 (100 Mbps), PROFINET CAT5e (100 Mbps), 4-position, shielded, Plug straight M12, D-coded, Screw connection, Knurl material: Nickel-plated brass, Cable gland Pg9, External cable diameter 6 mm ... 8 mm

Connector - SACC-M12MS-5SC M - 1508187



Connector, 5-position, Plug straight M12, A-coded, Spring-cage connection, Knurl material: Zinc die-cast, nickel-plated, External cable diameter 4 mm ... 8 mm

Connector - SACC-M12FS-5SC M - 1508200



Connector, 5-position, Socket straight M12, A-coded, Spring-cage connection, Knurl material: Zinc die-cast, nickel-plated, External cable diameter 4 mm ... 8 mm

Data cable preassembled

Bus system cable - SAC-4P-M12MSD/ 2,0-930 - 1524006



Bus system cable, Ethernet CAT5 (100 Mbps), Ethernet CAT5e (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, D-coded, on Free cable end, Cable length: 2 m

Bus system cable - SAC-4P-M12MSD/ 5,0-930 - 1524019



Bus system cable, Ethernet CAT5 (100 Mbps), Ethernet CAT5e (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, D-coded, on Free cable end, Cable length: 5 m

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Accessories

Bus system cable - SAC-4P-M12MSD/10,0-930 - 1524022



Bus system cable, Ethernet CAT5 (100 Mbps), Ethernet CAT5e (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, D-coded, on Free cable end, Cable length: 10 m

Bus system cable - SAC-4P-M12MSD/15,0-930 - 1524035



Bus system cable, Ethernet CAT5 (100 Mbps), Ethernet CAT5e (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, D-coded, on Free cable end, Cable length: 15 m

Bus system cable - SAC-4P-M12MSD/ 2,0-930/M12MSD - 1521533



Bus system cable, Ethernet CAT5 (100 Mbps), Ethernet CAT5e (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, D-coded, on Plug straight M12, D-coded, Cable length: 2 m

Bus system cable - SAC-4P-M12MSD/ 5,0-930/M12MSD - 1524051



Bus system cable, Ethernet CAT5 (100 Mbps), Ethernet CAT5e (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, D-coded, on Plug straight M12, D-coded, Cable length: 5 m

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Sensor/actuator cable

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Accessories

Sensor/Actuator cable - SAC-5P-MS/ 2,0-186 SCO - 1518326



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Free cable end, Cable length: 2 m

Sensor/Actuator cable - SAC-5P-MS/ 5,0-186 SCO - 1518339



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Free cable end, Cable length: 5 m

Sensor/Actuator cable - SAC-5P-MS/10,0-186 SCO - 1518342



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Free cable end, Cable length: 10 m

Sensor/Actuator cable - SAC-5P-MS/15,0-186 SCO - 1518355



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Free cable end, Cable length: 15 m

Sensor/Actuator cable - SAC-5P- 2,0-186/FS SCO - 1518368



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 2 m

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Accessories

Sensor/Actuator cable - SAC-5P- 5,0-186/FS SCO - 1518371



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 5 m

Sensor/Actuator cable - SAC-5P-10,0-186/FS SCO - 1518384



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 10 m

Sensor/Actuator cable - SAC-5P-15,0-186/FS SCO - 1518397



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 15 m

Sensor/Actuator cable - SAC-5P-MS/ 0,3-186/FS SCO - 1518407



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 0.3 m

Sensor/Actuator cable - SAC-5P-MS/ 0,5-186/FS SCO - 1518410



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 0.5 m

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Accessories

Sensor/Actuator cable - SAC-5P-MS/ 1,0-186/FS SCO - 1518423



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 1 m

Sensor/Actuator cable - SAC-5P-MS/ 2,0-186/FS SCO - 1518436



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 2 m

Sensor/Actuator cable - SAC-5P-MS/ 5,0-186/FS SCO - 1518449



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 5 m

Sensor/Actuator cable - SAC-5P-MS/10,0-186/FS SCO - 1518452



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 10 m

Sensor/Actuator cable - SAC-5P-MS/15,0-186/FS SCO - 1518465



Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 15 m

Terminal marking

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Accessories

Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 12 mm, Lettering field: 5.15 x 12.15 mm

Network cable - VS-M12MSD-RJ45-931/ 0,5 - 1657562



Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 4-pos. D-coded on RJ45 connector, length: 0.5 m

Network cable - VS-M12MSD-RJ45-931/ 1,0 - 1657575



Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 4-pos. D-coded on RJ45 connector, length: 1 m

Network cable - VS-M12MSD-RJ45-931/ 2,0 - 1657588



Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 4-pos. D-coded on RJ45 connector, length: 2 m

Network cable - VS-M12MSD-RJ45-931/ 5,0 - 1657591

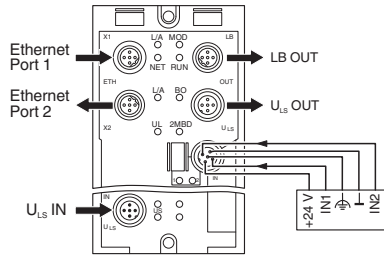


Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 4-pos. D-coded on RJ45 connector, length: 5 m

Drawings

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Connection diagram



Dimensioned drawing

