


FLM BK PB M12 DI 8 M12

Order No.: 2736330

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



Commercial data	
GTIN (EAN)	 4 017918 960063
sales group	L010
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 367 (AX-2009)

Product notesWEEE/RoHS-compliant since:
09/29/2008

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Product description

Fieldline modular bus coupler for PROFIBUS with four digital inputs

Technical data

General data

Width	70 mm
Height	178 mm
Depth	50 mm
Drill hole spacing	168 mm
Weight	280 g
Mounting type	Wall mounting
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
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	To I/O 500 V AC
Mechanical tests	Shock test in acc. with IEC 60068-2-27 Load 30 g, half sine wave, positive and negative per direction
	Vibration resistance in acc. with IEC 60068-2-6 5g in each space direction

Interface

Fieldbus system	PROFIBUS-DP
Name	PROFIBUS DP
Type of connection	M12 connector, B-coded
Designation connection point	Copper cable
Transmission speed	9.64 kBaud to 12 Mbaud automatic detection
Address area assignment	1 ... 126, adjustable
Number of positions	5

Local bus gateway

Name	Local bus gateway
Type of connection	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

Type of connection	M12 male connector
Name	U _L
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC IEC 61131-2 (including ripple)

Fieldline potential routing

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
Description of the input	Double-occupancy
Type of connection	M12 male connector
Connection method	2, 3, 4-wire
Number of inputs	8
Protective circuit	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

Certificates / Approvals



Certification CUL, UL

Certification Ex: CUL-EX, UL-EX

Accessories

Item	Designation	Description
Cable/conductor		
1518368	SAC-5P- 2,0-186/FS SCO	Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 2 m
1518371	SAC-5P- 5,0-186/FS SCO	Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 5 m
1518384	SAC-5P-10,0-186/FS SCO	Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 10 m
1518397	SAC-5P-15,0-186/FS SCO	Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 15 m
1518407	SAC-5P-MS/ 0,3-186/FS SCO	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
1518410	SAC-5P-MS/ 0,5-186/FS SCO	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
1518423	SAC-5P-MS/ 1,0-186/FS SCO	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
1518326	SAC-5P-MS/ 2,0-186 SCO	Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug, straight M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 2 m
1518436	SAC-5P-MS/ 2,0-186/FS SCO	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
1518339	SAC-5P-MS/ 5,0-186 SCO	Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug, straight M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 5 m
1518449	SAC-5P-MS/ 5,0-186/FS SCO	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
1518342	SAC-5P-MS/10,0-186 SCO	Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug, straight M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 10 m

1518452	SAC-5P-MS/10,0-186/FS SCO	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
1518355	SAC-5P-MS/15,0-186 SCO	Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug, straight M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 15 m
1518465	SAC-5P-MS/15,0-186/FS SCO	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

General

1518067	SAC-2P- 2,0-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 2 m
1518070	SAC-2P- 5,0-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 5 m
1518083	SAC-2P-10,0-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 10 m
1518096	SAC-2P-15,0-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 15 m
1518106	SAC-2P-MSB/ 0,3-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 0.3 m
1518119	SAC-2P-MSB/ 0,5-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 0.5 m
1518122	SAC-2P-MSB/ 1,0-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 1 m
1518025	SAC-2P-MSB/ 2,0-910 SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Free conductor end, Cable length: 2 m
1518135	SAC-2P-MSB/ 2,0-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 2 m
1518038	SAC-2P-MSB/ 5,0-910 SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Free conductor end, Cable length: 5 m
1518148	SAC-2P-MSB/ 5,0-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 5 m

1518041	SAC-2P-MSB/10,0-910 SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Free conductor end, Cable length: 10 m
1518151	SAC-2P-MSB/10,0-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 10 m
1518054	SAC-2P-MSB/15,0-910 SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Free conductor end, Cable length: 15 m
1518164	SAC-2P-MSB/15,0-910/FSB SCO	Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 15 m

Marking

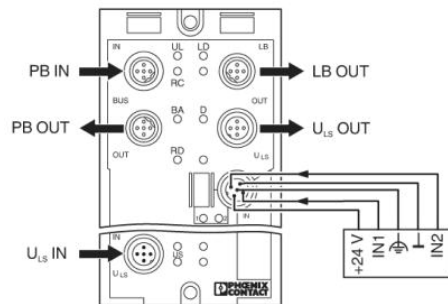
0809735	ZBF 12:UNBEDRUCKT	Zack strip, flat, unprinted, 5-section, divisible, for labeling by the customer
2809128	ZBN 18:UNBEDRUCKT	Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White

Plug/Adapter

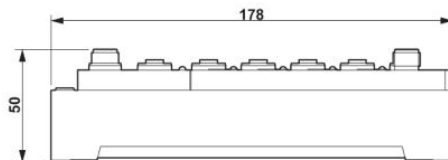
1507803	SAC-5P-M12MS PB TR	Terminating resistor PROFIBUS M12
1513606	SACC-M12FRB-5SC SH	Sensor/actuator connector, female, angled, 5-pos., M12, shielded, B-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm
1508200	SACC-M12FS-5SC M	Sensor/actuator connector, female, straight, 5-pos., M12, A-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm
1507777	SACC-M12FSB-5CON-PG9 SH AU	Bus system plug connector, female, straight, 5-pos., M12, shielded, gold-plated contacts, B-coded, screw connection, metal knurl, cable screw connection Pg9
1513596	SACC-M12FSB-5SC SH	Sensor/actuator connector, female, straight, 5-pos., M12, shielded, B-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm
1513583	SACC-M12MRB-5SC SH	Sensor/actuator connector, male, angled, 5-pos., M12, shielded, B-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm
1508187	SACC-M12MS-5SC M	Sensor/actuator connector, male, straight, 5-pos., M12, A-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm
1507764	SACC-M12MSB-5CON-PG9 SH AU	Bus system plug connector, male straight, 5-pos., M12, shielded, gold-plated contacts, B-coded, screw connection, metal knurl, cable screw connection Pg9
1513570	SACC-M12MSB-5SC SH	Sensor/actuator connector, male, straight, 5-pos., M12, shielded, B-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm

Diagrams/Drawings

Connection diagram



Dimensioned drawing



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