


FLM BK DN M12 DI 8 M12

Order No.: 2736343

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The DeviceNet™ bus coupler opens a local bus for up to 16 devices. Additional functions: automatic baud rate detection, 8 digital inputs, channel-specific diagnostics, short-circuit and overload protection, M12 fast connection technology.



Commercial data	
GTIN (EAN)	 4 017918 974213
sales group	L020
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 368 (AX-2009)

Product notes

WEEE/RoHS-compliant since:
12/07/2009



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Product description

Fieldline modular bus coupler for DeviceNet™ with eight digital inputs

Technical data

General data

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

Interface

Fieldbus system	DeviceNet™
Name	DeviceNet™
Type of connection	M12 connector, A-coded
Designation connection point	Copper cable
Transmission speed	125 kBaud, 250 kBaud, 500 kBaud automatic detection 125 kBit/s, 250 kBit/s, 500 kBit/s (Automatic baud rate detection)
Transmission physics	Copper cable in acc. with DeviceNet™ specification
Address area assignment	0 ... 63, can be set
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. 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. 10 mA (plus power supply for sensors)
	max. 700 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

1518216	SAC-5P- 2,0-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 2 m
1518229	SAC-5P- 5,0-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 5 m
1518232	SAC-5P-10,0-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 10 m
1518245	SAC-5P-15,0-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 15 m
1518258	SAC-5P-MS/ 0,3-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 0.3 m
1518261	SAC-5P-MS/ 0,5-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 0.5 m
1518274	SAC-5P-MS/ 1,0-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 1 m
1518177	SAC-5P-MS/ 2,0-920 SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 2 m
1518287	SAC-5P-MS/ 2,0-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 2 m
1518180	SAC-5P-MS/ 5,0-920 SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 5 m
1518290	SAC-5P-MS/ 5,0-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 5 m

1518193	SAC-5P-MS/10,0-920 SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 10 m
1518300	SAC-5P-MS/10,0-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 10 m
1518203	SAC-5P-MS/15,0-920 SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Free conductor end, Cable length: 15 m
1518313	SAC-5P-MS/15,0-920/FS SCO	Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 15 m
1512584	SACC-M12FR-5SC SH	Sensor/actuator connector, female, angled, 5-pos., M12, shielded, A-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm
1512571	SACC-M12FS-5SC SH	Sensor/actuator connector, female, straight, 5-pos., M12, shielded, A-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm
1512568	SACC-M12MR-5SC SH	Sensor/actuator connector, male, angled, 5-pos., M12, shielded, A-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm
1512555	SACC-M12MS-5SC SH	Sensor/actuator connector, male, straight, 5-pos., M12, shielded, A-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm

Marking

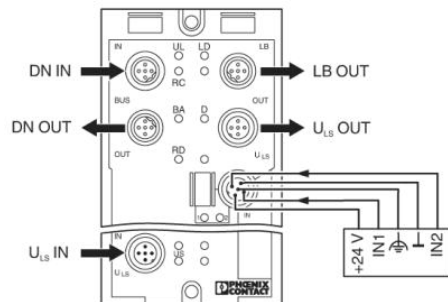
0809735	ZBF 12:UNBEDRUCKT	Zack strip, flat, unprinted, 5-section, divisible, for labeling by the customer
2809128	ZBN 18:UNBEDRUCKT	Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White

Plug/Adapter

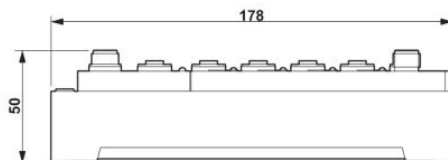
1508365	SACC-M12FS-5CON-PG 9 SH AU	Bus system plug connector, female straight, 5-pos., M12, shielded, gold-plated contacts, A-coded, screw connection, metal knurl, cable screw connection Pg9
1508200	SACC-M12FS-5SC M	Sensor/actuator connector, female, straight, 5-pos., M12, A-coded, spring-cage connection, metal knurl, cable cross section max. 8 mm
1508352	SACC-M12MS-5CON-PG 9 SH AU	Bus system plug connector, male, straight, 5-pos., M12, shielded, gold-plated contacts, A-coded, screw connection, metal knurl, cable screw connection Pg9
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

Diagrams/Drawings

Connection diagram



Dimensioned drawing



Address

PHOENIX CONTACT Deutschland GmbH
Flachmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 12000
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



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