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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

Why buy this product

- ☑ PROFIBUS
- 8 inputs, 24 V DC



Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	340.000 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Note

Utilization restriction EMC: class A product, see manufacturer's declaration in the download area
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Environmental Product Compliance

REACh SVHC	DEHP 117-81-7
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Dimensions

Width	70 mm
Height	178 mm
Depth	50 mm



Technical data

Dimensions

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 %
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

Fieldbus system	PROFIBUS DP
Designation	PROFIBUS DP
Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Transmission speed	9,6 kBit/s 12 MBit/s
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



Technical data

Fieldline potentials

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
Connection method	M12 connector
	2, 3, 4-wire
Number of inputs	8 (double-occupancy)
Protective circuit	Reverse polarity protection
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

Electrical isolation

Test section	To I/O 500 V AC

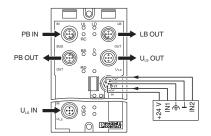
Standards and Regulations

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

Drawings



Connection diagram



Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27240404
eCl@ss 4.1	27240404
eCl@ss 5.0	27242204
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

UNSPSC

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

Approvals

Approvals



Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approval details

UL Recognized 1 http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 140324

cUL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 140324

cULus Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

Accessories

Accessories

Circular connector (cable-side)

Bus system connector - SACC-M12MSB-5CON-PG9 SH AU - 1507764



Bus system connector, PROFIBUS, INTERBUS, 5-position, shielded, Plug straight M12, B-coded, Screw connection, Knurl material: Zinc die-cast, nickel-plated, External cable diameter 6.5 mm ... 8.5 mm

Bus system connector - SACC-M12FSB-5CON-PG9 SH AU - 1507777



Bus system connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket straight M12, B-coded, Screw connection, Knurl material: Zinc die-cast, nickel-plated, External cable diameter 6.5 mm ... 8.5 mm



Accessories

Connector - SACC-M12MSB-5SC SH - 1513570



Connector, 5-position, shielded, Plug straight M12, B-coded, Spring-cage connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

Connector - SACC-M12FSB-5SC SH - 1513596



Connector, 5-position, shielded, Socket straight M12, B-coded, Spring-cage connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

Connector - SACC-M12MRB-5SC SH - 1513583



Connector, 5-position, shielded, Plug angled M12, B-coded, Spring-cage connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

Connector - SACC-M12FRB-5SC SH - 1513606



Connector, 5-position, shielded, Socket angled M12, B-coded, Spring-cage connection, Knurl material: Nickel-plated brass, External cable diameter 4 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



Accessories

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-2P-MSB/ 2,0-910 SCO - 1518025



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12 SPEEDCON, B-coded, on free cable end, Cable length: 2 m

Bus system cable - SAC-2P-MSB/ 5,0-910 SCO - 1518038



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12 SPEEDCON, B-coded, on free cable end, Cable length: 5 m

Bus system cable - SAC-2P-MSB/10,0-910 SCO - 1518041



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12 SPEEDCON, B-coded, on free cable end, Cable length: 10 m

Bus system cable - SAC-2P-MSB/15,0-910 SCO - 1518054



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12 SPEEDCON, B-coded, on free cable end, Cable length: 15 m



Accessories

Bus system cable - SAC-2P- 2,0-910/FSB SCO - 1518067



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M12 SPEEDCON, B-coded, Cable length: 2 m

Bus system cable - SAC-2P- 5,0-910/FSB SCO - 1518070



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M12 SPEEDCON, B-coded, Cable length: 5 m

Bus system cable - SAC-2P-10,0-910/FSB SCO - 1518083



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M12 SPEEDCON, B-coded, Cable length: 10 m

Bus system cable - SAC-2P-15,0-910/FSB SCO - 1518096



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M12 SPEEDCON, B-coded, Cable length: 15 m

Bus system cable - SAC-2P-MSB/ 0,3-910/FSB SCO - 1518106



Bus system cable, PROFIBUS (12 Mbps), 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



Accessories

Bus system cable - SAC-2P-MSB/ 0,5-910/FSB SCO - 1518119



Bus system cable, PROFIBUS (12 Mbps), 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

Bus system cable - SAC-2P-MSB/ 1,0-910/FSB SCO - 1518122



Bus system cable, PROFIBUS (12 Mbps), 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

Bus system cable - SAC-2P-MSB/ 2,0-910/FSB SCO - 1518135



Bus system cable, PROFIBUS (12 Mbps), 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

Bus system cable - SAC-2P-MSB/ 5,0-910/FSB SCO - 1518148



Bus system cable, PROFIBUS (12 Mbps), 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

Bus system cable - SAC-2P-MSB/10,0-910/FSB SCO - 1518151



Bus system cable, PROFIBUS (12 Mbps), 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



Accessories

Bus system cable - SAC-2P-MSB/15,0-910/FSB SCO - 1518164



Bus system cable, PROFIBUS (12 Mbps), 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

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

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



Accessories

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, Acoded, Cable length: 2 m

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, Acoded, 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, Acoded, 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, Acoded, Cable length: 15 m



Accessories

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

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



Accessories

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

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

Terminal resistor

Termination resistor - SAC-5P-M12MS PB TR - 1507803



Terminating resistor PROFIBUS M12

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