


**FLS PB M12 IOL 4 M12**

Order No.: 2736987

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2736987>

The local bus device has 4 IO-Link ports of 200 mA and 4 digital inputs. Functions: parallel processing of service and process data, 500 kbaud/2 Mbaud selection, short-circuit and overload protection, 800 mA nominal current, M12 fast connection technology.

**Commercial data**

GTIN (EAN)	 4 046356 147323
sales group	L013
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 246 (AX-2011)

**Product notes**

WEEE/RoHS-compliant since:  
05/20/2011



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**Product description**

The device serves to connect IO-Link devices.

## Technical data

### General data

Width	70 mm
Height	178 mm
Depth	49.3 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)
Degree of protection	IP65/67
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
Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Transmission speed	9.64 kBaud to 12 Mbaud automatic detection (Automatic baud rate detection)
Transmission physics	PROFIBUS-DP-compliant copper cable
Address area assignment	1 ... 126, adjustable
Number of positions	5

### Power supply for module electronics

Connection method	M12 male connector
Name	U <sub>L</sub>
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 <sub>L</sub>	24 V DC
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Power supply at $U_L$	max. 4 A
Current consumption from $U_L$	Typ. 75 mA (At 500 kBaud)
	max. 100 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. 25 mA (plus power supply for sensors)
	max. 825 mA

### Accessories

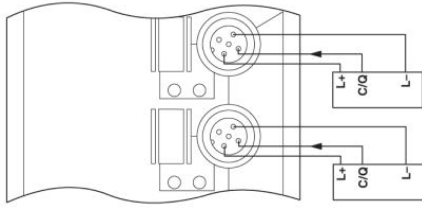
Item	Designation	Description
<b>Cable/conductor</b>		
1507298	SAC-2P- 2,0-910/M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, B-coded, Cable length: 2 m
1507308	SAC-2P- 5,0-910/M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, B-coded, Cable length: 5 m
1507311	SAC-2P-10,0-910/M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, B-coded, Cable length: 10 m
1507324	SAC-2P-15,0-910/M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Free conductor end, on Socket, straight M12, B-coded, Cable length: 15 m
1507340	SAC-2P-M12MSB/ 0,3-910/M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Socket, straight M12, B-coded, Cable length: 0.3 m
1507353	SAC-2P-M12MSB/ 0,5-910/M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Socket, straight M12, B-coded, Cable length: 0.5 m
1507366	SAC-2P-M12MSB/ 1,0-910/M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Socket, straight M12, B-coded, Cable length: 1 m
1507243	SAC-2P-M12MSB/ 2,0-910	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Free conductor end, Cable length: 2 m
1507379	SAC-2P-M12MSB/ 2,0-910/M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Socket, straight M12, B-coded, Cable length: 2 m
1507256	SAC-2P-M12MSB/ 5,0-910	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Free conductor end, Cable length: 5 m

1507382	SAC-2P-M12MSB/ 5,0-910/ M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Socket, straight M12, B-coded, Cable length: 5 m
1507269	SAC-2P-M12MSB/10,0-910	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Free conductor end, Cable length: 10 m
1507395	SAC-2P-M12MSB/10,0-910/ M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Socket, straight M12, B-coded, Cable length: 10 m
1507272	SAC-2P-M12MSB/15,0-910	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Free conductor end, Cable length: 15 m
1507405	SAC-2P-M12MSB/15,0-910/ M12FSB	Bus system cable, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Socket, straight M12, B-coded, Cable length: 15 m
1509487	SAC-4P- 2,0-186/M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 2 m
1509490	SAC-4P- 5,0-186/M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 5 m
1509500	SAC-4P-10,0-186/M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 10 m
1509513	SAC-4P-15,0-186/M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Free conductor end, on Socket, straight M12, A-coded, Cable length: 15 m
1509526	SAC-4P-M12MS/ 0,3-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.3 m
1509539	SAC-4P-M12MS/ 0,5-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.5 m
1509542	SAC-4P-M12MS/ 1,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 1 m
1509445	SAC-4P-M12MS/ 2,0-186	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 2 m
1509555	SAC-4P-M12MS/ 2,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 2 m
1509458	SAC-4P-M12MS/ 5,0-186	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 5 m
1509568	SAC-4P-M12MS/ 5,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 5 m

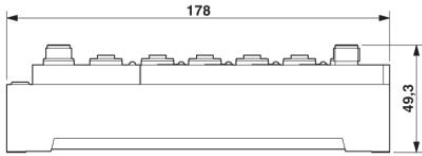
1509461	SAC-4P-M12MS/10,0-186	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 10 m
1509571	SAC-4P-M12MS/10,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 10 m
1509474	SAC-4P-M12MS/15,0-186	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 15 m
1509584	SAC-4P-M12MS/15,0-186/ M12FS	Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 15 m
<b>Marking</b>		
0809735	ZBF 12:UNBEDRUCKT	Zack strip, flat, unprinted, 5-section, divisible, for labeling by the customer
<b>Plug/Adapter</b>		
1510722	SAC-4P-M12Y/2X0,3-PUR/ M12FS VP	Sensor/Actuator cable, 4-position, PUR halogen-free, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded and Socket, straight M12, A-coded, Cable length: 0.3 m
1507803	SAC-5P-M12MS PB TR	Terminating resistor PROFIBUS M12
1507780	SAC-M12T/2XM12 PB DP	Bus system T-connector, 5-pos., PROFIBUS, M12 B-encoded male connector to M12 B-encoded male connector and M12 B-encoded female connector, shielded
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
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
<b>Protection and sealing elements</b>		
1680539	PROT-M12	An M12 screw plug for the unoccupied M12 sockets of the sensor/ actuator cable, boxes and flush-type connectors
1553129	PROT-MS SCO	M12 screw plug with SPEEDCON quick locking for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors

## Diagrams/Drawings

### Connection diagram



### Dimensioned drawing



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