

FLS PB M12 IOL 4 M12 - Distributed I/O device



2736987

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The local bus device has 4 IO-Link ports of 200 mA. 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.

Product description

The terminal is designed for use within an Inline station. The terminal is used to operate IO-Link-compatible sensors and actuators (devices). It is also used to acquire digital signals. IO-Link is the standard for consistent communication from the controller to the lowest field level. In IO-Link communication, the process data is forwarded during parallel service data transmission. IO-Link is a point-to-point connection between an IO-Link port and the sensor or actuator. IO-Link technology uses the familiar signal technology of the 0 V and 24 V binary interface in order to transmit data using pulse modulation. IO-Link offers full backward compatibility with standard sensors/actuators. Using this terminal, IO-Link-compatible devices from any manufacturer can be operated on INTERBUS, PROFIBUS, and PROFINET.

Your advantages

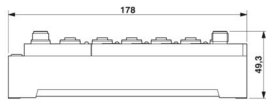
- Directly accessible address encoding switch
- Consistent connection via M12 connectors
- Short-circuit and overload protection
- Diagnostic and status indicators
- Flexible power supply concept

Commercial data

Item number	2736987
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI4A2
GTIN	4046356147323
Weight per piece (including packing)	351.5 g
Weight per piece (excluding packing)	280 g
Customs tariff number	85389099
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	70 mm
Height	178 mm
Depth	49.3 mm
Drill hole spacing	168 mm

Material specifications

Color	anthracite
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Interfaces

PROFIBUS DP

Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Number of positions	5
Transmission speed	9.6 kbps ... 12 Mbps (Automatic baud rate detection)
Transmission physics	PROFIBUS-DP-compliant copper cable
Address area assignment	1 ... 126, adjustable

Input data

Digital:

Connection technology	3-conductor
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Digital

Number of inputs	max. 4
Nominal input current	8 mA (at 24 V DC)
Signal delay	< 3 ms (t_{on} , typical) 3 ms (t_{off} , typical)
Permissible cable length	< 20 m

IO-Link

Input filter time	typ. 3 ms
Protective circuit	Reverse polarity protection

IO-Link

Number of ports	4
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Connection method	M12 connector
Connection technology	3-conductor

Output data

Digital

Number of outputs	max. 4
Nominal current per channel	200 mA (I_{Nominal})
Maximum total current consumption	0.8 A (observe derating)
Limitation of the voltage induced on circuit interruption	approx. -1 V
Protective circuit	Freewheeling diode; Integrated per channel

Product properties

Product type	I/O component
Product family	Fieldline
Type	Block design
No. of channels	4

Electrical properties

Potentials

Voltage supply U_L	24 V DC
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

Supply: IO-Link

Nominal current for every IO-Link port	200 mA
Nominal current per device	800 mA
Permissible cable length	< 20 m
Protective circuit	Overload protection; Electronics in the device
	Short-circuit protection; Electronics in the device

Supply: 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)

Connection data

Connection method	M12 connector
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Environmental and real-life conditions

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Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP65/IP67
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %

Mechanical test

Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Load 30g, half sine wave, positive and negative per direction
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g in each space direction

Mounting

Mounting type	Panel mounting
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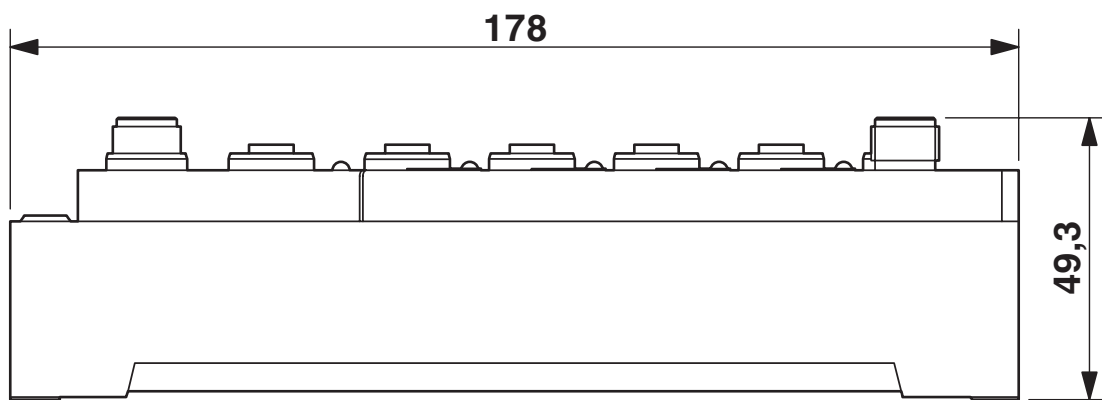


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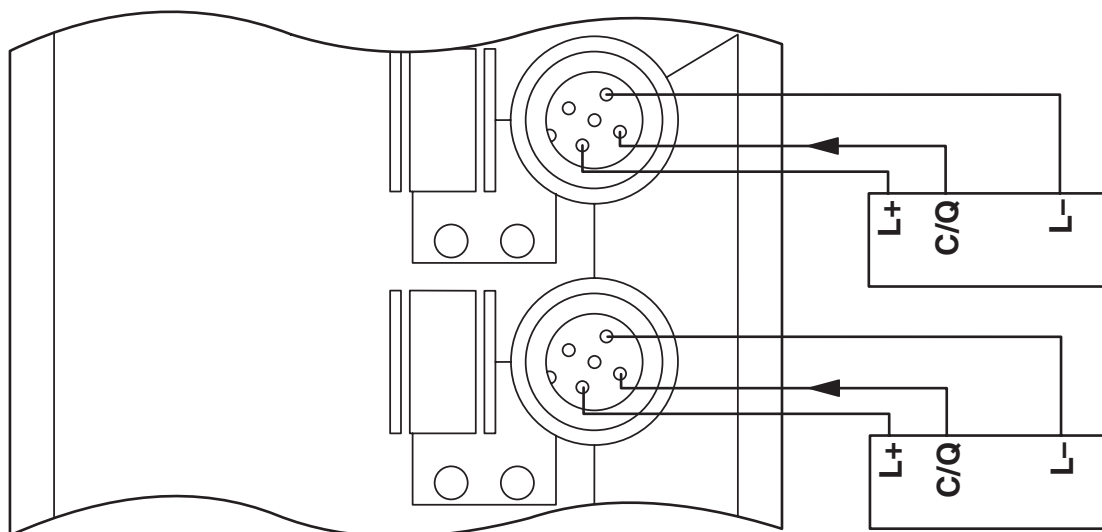
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Drawings

Dimensional drawing



Connection diagram



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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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