



Model Number

WRM-F301-IO-B15-2V15

IO-Link/Bluetooth interface with SmartBridge technology

Features

- Monitoring and control of IO-Link devices via a mobile device app
- Reaction-free access to sensor data and actuator data from the production process
- Process data recording for monitoring and troubleshooting

Description

The IO-Link/Bluetooth interface enables IO-Link-capable sensors and actuators to be monitored, parameterized, and controlled via the SmartBridge® app. The app is installed on a conventional mobile device and communicates with the IO-Link/Bluetooth interface via Bluetooth.

Accessories

V15-G-1M-PUR-V15-G Connecting cable, M12 to M12, PUR cable 5-pin **Electrical specifications** Operating voltage Operating current

Time delay before availability Interface 1

Interface type

- Protocol Transfer rat Interface 2 Interface type Transmitter radiated power
- Frequency range
- Interface 3
- Interface type Switching output
- Output type
- Output rated operating current Ambient conditions
- Ambient temperature
- Relative humidity Mechanical specifications
- Housing length
- Housing width Housing height Degree of protection
- Connection
- Materia
- Housing Mass
- General information
- Note
- Compliance with standards and directives **Directive conformity B&TTE Directive 1995/5/EC**
- Standard conformity Standards
- Approvals and certificates CE conformity

Dimensions

- 24 V DC No load: \leq 20 mA Monitor mode: ≤ 32 mA Master mode: \leq 30 mA Monitor mode (from power up to data logging) < 200 ms Master mode: < 700 ms IO-I ink IO-Link V1.1 , IO-Link-V1.01 COM 1 (4.8 kBaud) , COM 2 (38.4 kBaud) , COM 3 (230.4 kBaud) Radio interface: Bluetooth smart (BT4.0, BT-LE)
- < 10 mW 2402 ... 2480 MHz

USB2.0 Micro-B (for access to data logging)

Configurable in master mode : Push/pull , NPN , PNP $I_L \le 200 \text{ mA}$

-25 ... 75 °C (-13 ... 167 °F) 95 % non-condensing

103 mm 50 mm 28 mm IP54

UB

 I_B

t_v

5-pin, M12x1 socket (A-coded) USB2.0 Micro-B socket (for access to data logging)

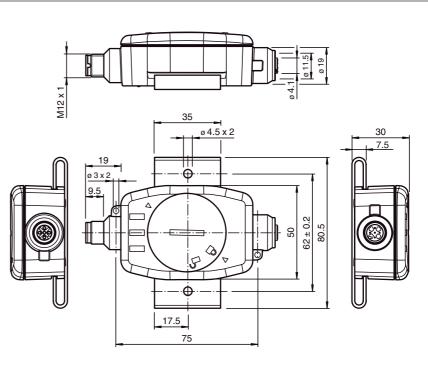
PC/ABS approx. 135 g

Data logging: microSD card required, max 32 GB, FAT32 format

EN 301489-1 V1.9.2 (2011-09), EN 301489-17 V2.1.1 (2009-05) EN 300328 V1.8.1 (2012-04)

IEC 61131-9:2013 (IO-Link)

EN 61000-6-3 , EN 61000-6-2





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Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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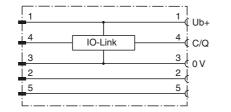


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Electrical Connection

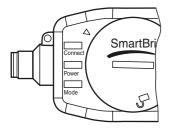




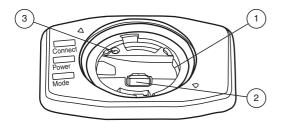
IO-Link Device Port



Additional Information



LED	Colors	Description
Connect	Blue	Bluetooth communication
Power	Green/red	Status indicator (operation, error)
Mode	Green/yellow	Operating mode (master or monitor)



	SD card slot
2	USB 2.0 Micro B socket
3	Reset button

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Functional Description and Application

Functional Description

The IO-Link/Bluetooth interface with SmartBridge technology performs two functions:

- In monitor mode, it enables data to be extracted without reaction from a connection between an IO-Link master and IO-Link device.
- In master mode, it acts like an IO-Link master and can establish data communication with an IO-Link device. If necessary, the SmartBridge interface can emulate the original standard input/output signal (SIO) and forward this to the machine control.

Application

In monitor mode, the SmartBridge interface is used to ensure correct IO-Link data communication between the IO-Link master and IO-Link device. In master mode, the SmartBridge interface enables functions such as parameterization, process data control, and event analysis to be controlled on IO-Link devices.

Additional Functions

The SmartBridge interface provides the ability to write process data to a removable microSD card (data logging). Access to the log file generated through this process can be gained by removing the microSD card or using the integrated micro USB interface.

Installation

The supplied mounting clamp makes securing the SmartBridge interface quick and easy.

Mobile Device App

Mobile device apps for controlling and monitoring connected IO-Link devices are available for the mobile device families outlined below in the relevant app store. • Android devices: Google Play Store

Apple devices: Apple App Store

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