



RFID read/write device IUT-F191-IO-V1-FR2-13

- Flexible UHF read/write device with short detection range
- Ready-made PLC function blocks designed for quick and easy system integration
- Compact and robust housing for harsh industrial environments
- Multi-tag reading of up to 20 tags ensures increased productivity
- Circular antenna polarization ensures reliable transponder detection and improves process flow
- For connection to IO-Link master
- Degree of protection IP67

UHF RFID read/write device with IO-Link, Malaysia



Function

The RFID read/write device operates in the UHF frequency range (860 – 930 MHz) and is optimized for industrial use. The device reads and writes RFID tags in line with EPC Gen2 (ISO/IEC 18000-63).

The UHF RFID read/write device supports a wide range of options for filtering data and is connected to an IO-Link master via an M12 connector. The operating status can be monitored using the integrated LEDs.

The achievable read and write distances depend on a range of factors. These include, in particular, the tag used, the configured transmission power, the installation situation, and the ambient conditions, particularly metallic materials. The actual read and write distances should therefore be verified under the relevant operating conditions.

This product is a wireless device and can only be operated in countries for which the relevant product variant is approved. Information on the applicable transmission licenses and permitted regions of use can be found in the product datasheet. When operating the device, the applicable legal and regulatory requirements of the country of use must be observed.

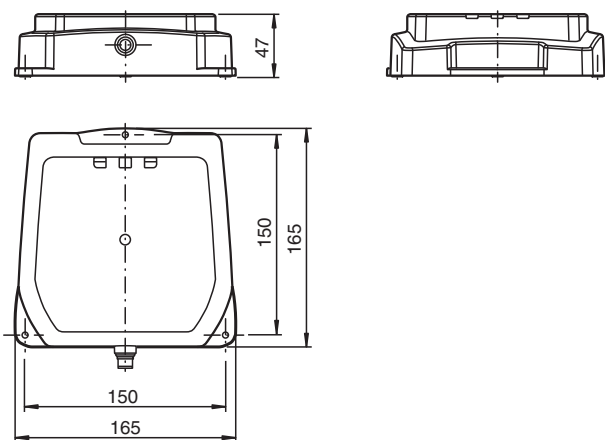
Application

This product is a wireless device and may be operated only in the country for which a transmission license exists. If a product is released to a customer in a country for which there is no transmission license, the product may be operated only in the country for which a transmission license exists.

If a product does not correspond to the legal requirements in force in the EU but is released to a purchaser within the EU, the product is intended for use solely in the destination country of the end customer outside of the EU for which a transmission license exists. The product may therefore under no circumstances be used directly by the purchaser or released to third parties for the purpose of distribution, application or use on the market within the EU as part of a commercial activity.

In the event of an infringement, the purchaser is obliged to indemnify the supplier against any resulting damages, costs, penalty payments and other expenses.

Dimensions



Technical Data

General specifications

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

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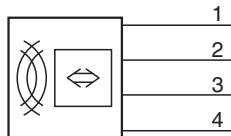
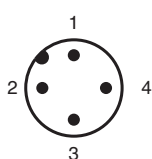
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Technical Data

Operating frequency	919 MHz ... 923 MHz: Malaysia Transmission licenses for other countries on request	
Emitted power		3 ... 100 mW ERP adjustable
Operating distance		typ. 1 m
MTBF		127 a (Operation at +40 °C)
Indicators/operating means		
LED green/red		Solid green: power on green flashing with short interruption (1 Hz): IO-Link mode
LED yellow		Read/write operation successful
LED blue		Transmission mode
Electrical specifications		
Operating voltage	U _B	18 ... 30 V DC (IO-Link)
Current consumption		≤ 90 mA (at 24 V DC)
Interface		
Interface type		IO-Link
IO-Link revision		1.1
Device profile		Identification and Diagnosis - I&D
Process data		Input 32 Byte Output 32 Byte
Vendor ID		1 (0x0001)
Device ID		4194835 (0x400213)
Transfer rate		COM3 (230.4 kbits/s)
Min. cycle time		4 ms
SIO mode support		no
Compatible master port type		Class A Class B
Standard conformity		
Degree of protection		EN 60529
Communication interface		IEC 61131-9 / IO-Link V1.1.5
RFID		ISO/IEC 18000-63
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F) (Operation with nontransmission periods) -25 ... 60 °C (-13 ... 140 °F) (Continuous transmission mode)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		connector M12 x 1
Material		
Housing		PA 6.6
Base		Aluminum
Mass		700 g
Dimensions		
Height		47 mm
Width		165 mm
Length		165 mm

Connection Assignment



1 L+
2 n.c.
3 L-
4 C/Q