

RFID read/write device

IUT-F191-IO-V1-FR2-02



- 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, USA, Canada and Mexico



IO-Link

Function

The read/write device operates in the UHF frequency range and is optimized for use in industrial applications involving shorter distances. The device reads and writes passive tags acc. to EPC Generation 2 (ISO/IEC 18000-63). The read/write device is compliant with the relevant transmission regulations.

Wide range of options supported for filtering data. The read/write device has an IO-Link interface and is connected via a M12 connector. The user can monitor the status of the read/write device using the integrated LEDs.

The read/write device has a typical detection range of around 1 meter; this range is determined by the tag used and can be adjusted by configuring the transmission power. Other influencing factors include the setup and installation of the specific application and the surrounding materials, particularly metal. The read and write distances for the relevant tag, which are detailed separately, have been established in a test laboratory under ideal conditions. For the actual read and write distances under real conditions, the combination of read/write device and tag must be tested in the desired application.

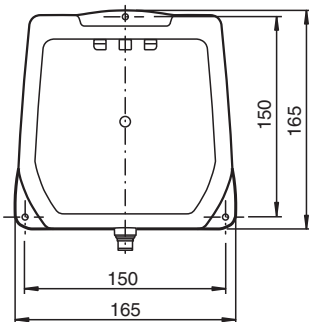
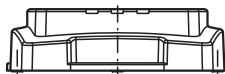
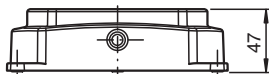
Application

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



Release date: 2024-04-22 Date of issue: 2024-04-22 Filename: 70113811_eng.pdf

Technical Data

General specifications

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

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PEPPERL+FUCHS

Technical Data

Operating frequency		902 ... 928 MHz: USA, Canada, Mexico Transmission licenses for other countries on request
Emitted power		3 ... 150 mW EIRP adjustable
UL File Number		E468231
MTBF		127 a (Operation at +40 °C)
Indicators/operating means		
LED green/red		Solid green: Ready for operation, no IO-Link communication Flashing green (1 Hz): IO-Link operation
LED yellow		Read/write operation successful
LED blue		Transmission mode
Electrical specifications		
Operating voltage	U _B	18 ... 30 V DC (IO-Link) ; Class 2, LEC or LPS
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		4194818 (0x400202)
Data 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 V1.1.3
RFID		ISO/IEC 18000-63
Approvals and certificates		
UL approval		UL 61010-1 Protection class is not included in the UL approval. The protection class is tested by Pepperl+Fuchs SE.
FCC approval		This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
IC approval		This device complies with Industry Canada licence-exempt RSS standard(s) and with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
IFT approval		
Certificate		PEPEIU24-05718
Radio approval		USA: Contains FCC IREIURF191 Canada: Contains 7037A-IURF191
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

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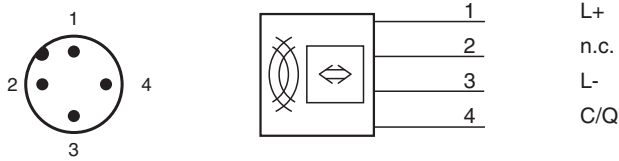
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Technical Data

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



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