



Read/write station IUT-F190-R4-V1-FR1-15

- Flexible UHF read/write station with medium detection range
- Compact and robust housing for harsh industrial environments
- Switchable antenna polarization guarantees reliable tag detection and enhances process flow
- Connection via integrated RS-485 interface
- Multi-tag reading increases productivity

UHF read/write station, Morocco



Function

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

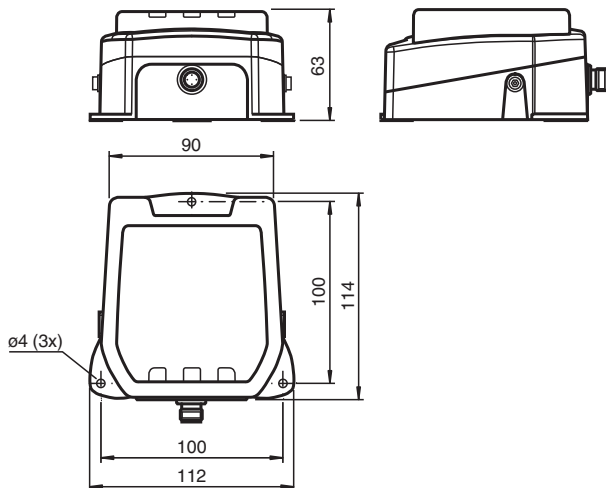
The read/write station can be used in Morocco.

Wide range of options supported for filtering data. The read/write station has an RS-485 interface and is connected via an M12 connector.

The user can monitor the status of the read/write station using the integrated LEDs.

The read/write station has a typical detection range of around 2 meters; 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 station and tag must be tested in the desired application.

Dimensions



Technical Data

General specifications

Operating frequency	867.6 ... 868 MHz: Morocco Transmission licenses for other countries on request
Emitted power	3 ... 500 mW ERP adjustable
Operating distance	typ. 2 m

Functional safety related parameters

MTTF _d	210 a
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Indicators/operating means

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

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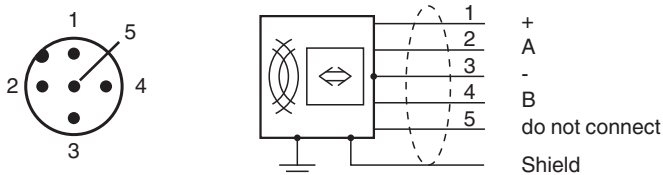
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 PEPPERL+FUCHS


Technical Data

LED green	Power on
LED yellow	Read/write operation successful
LED blue	Transmission mode
Electrical specifications	
Rated operating voltage	U_e 20 ... 30 V DC , ripple 10 % _{SS}
Current consumption	≤ 450 mA
Power consumption	P_0 ≤ 9 W
Surge protection	category 2
Interface	
Physical	RS-485 point-to-point connection
Protocol	ASCII
Transfer rate	1200, 2400, 4800, 9600, 19200, 38400 (default) Bit/s
Directive conformity	
Radio and telecommunication terminal equipment	
Directive 2014/53/EU	EN 301489-1 V2.1.1:2017 EN 301489-3 V2.1.1:2017 EN 302208 V3.1.1:2016 EN 50364:2010 EN 62368-1:2014+AC:2015
Standard conformity	
Degree of protection	EN 60529:2000
Ambient conditions	
Classification	Environmental condition A (controlled environment)
Ambient temperature	-20 ... 70 °C (-4 ... 158 °F) (Operation with nontransmission periods, adjustable) -20 ... 60 °C (-4 ... 140 °F) (Continuous transmission mode)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Pollution degree	2
Mechanical specifications	
Housing length	100 mm
Housing width	100 mm
Housing height	63 mm
Degree of protection	IP67
Connection	connector M12 x 1
Material	
Housing	PA 6
Base	diecast aluminum
Mass	810 g












Connection



Accessories

	IUC76-34-M-FR1	Data carrier
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Accessories

	IUC76-50-FR1	Data carrier
	IUC76-F157-T17-M-FR1	Data carrier for standard applications
	IUC76-F157-T18-M-FR1	Data carrier for paint shop applications
	IUC76-F157-T19-M-FR1	Data carrier for autoclave applications
	IUC76-28L90-M-FR1 25pcs	Data carrier
	IUC77-25L100-GBL 1000pcs	Data carrier
	IUZ-MH13	Mounting bracket for wall mounting
	IUZ-MH15	Mounting aid for round steel \varnothing 12 mm or sheet 1.5 mm ... 3 mm
	V1-G-2M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	V1-G-5M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	V1-G-10M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded

Application

This product is a wireless device and may be operated only in the country for which a transmission license exists. Information regarding transmission licenses can be found on the datasheet for the product. 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.

Parameterization

Preferences:

Interface transfer rate: 38400 bps

Port settings: 8 data bits, no parity, 1 stop bit, no handshake

Transpondertype: 80