

Read/write station

IUT-F191-R4-V1-FR1-01



- Flexible UHF read/write station with short detection range
- 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
- Connection via integrated RS-485 interface

UHF read/write station, Europe



Function

The read/write station 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 station is compliant with the relevant transmission regulations.

The read/write station can be used in Europe.

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 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 station and tag must be tested in the desired application.

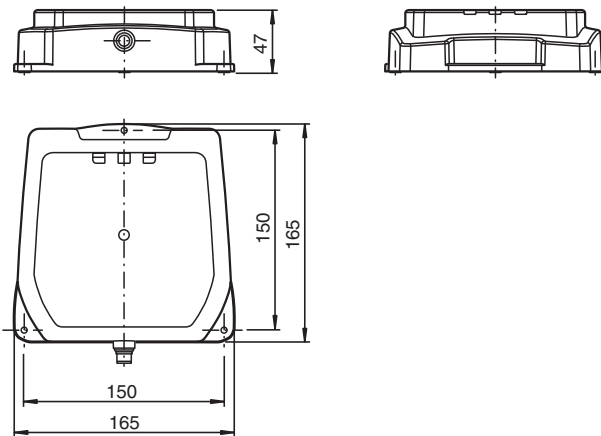
Application

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: 2021-03-10 Date of issue: 2021-03-10 Filename: 70113813_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

General specifications

Operating frequency	865 ... 868 MHz: EU, Turkey Transmission licenses for other countries on request
Emitted power	3 ... 100 mW ERP adjustable
Operating distance	typ. 1 m

Indicators/operating means

LED green	Ready for operation
LED yellow	Read/write operation successful
LED blue	Transmission mode

Electrical specifications

Rated operating voltage	U_e	10 ... 30 V DC
Current consumption		≤ 190 mA
Power consumption	P_0	≤ 1.9 W
Surge protection		category 2

Interface

Physical	RS-485 point-to-point connection
Protocol	ASCII
Transfer rate	38400 Bit/s

Directive conformity

Radio equipment	
Directive 2014/53/EU	EN 301489-1 EN 301489-3 EN 302208 EN 62368-1 EN 50364

Standard conformity

Degree of protection	EN 60529
RFID	ISO/IEC 18000-63

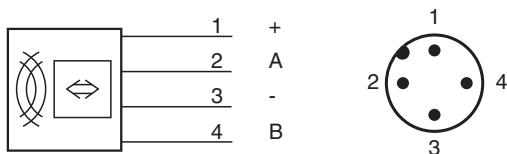
Ambient conditions

Classification	Environmental condition A (controlled environment)
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F) (Operation with nontransmission periods) -25 ... 55 °C (-13 ... 131 °F) (Continuous transmission mode)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Pollution degree	2

Mechanical specifications

Housing length	165 mm
Housing width	165 mm
Housing height	47 mm
Degree of protection	IP67
Connection	connector M12 x 1
Material	
Housing	PA 6.6
Mass	700 g











Connection



Parameterization

Interface transfer rate:	38400 Bit/s
Port settings:	8 data bits, no parity, 1 stop bit, no handshake
Transpondertype:	80

Accessories

	IUC76-34-M-FR1	Data carrier
	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
	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