

RFID read/write device IUT-F190-R4-V1-FR2-03

- Flexible UHF read/write device 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 RFID read/write device, China



Function

The compact IUT-F190-R4-V1-FR2-03 read/write station operates in the UHF frequency range and is optimized for industrial use at medium distances. The device writes and reads passive transponders according to EPC Gen2 (ISO/IEC 18000-63). The read/write station can be used in China. The read/write station is compliant with the relevant radio regulations.

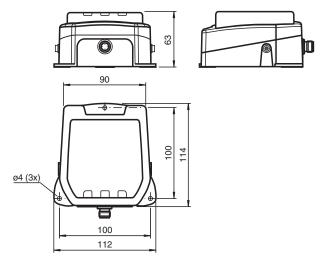
Wide range of options supported for filtering data. The read/write station has an RS-485 interface and is connected via an M12 connector. The user can monitor the status of the read/write station using the integrated LEDs.

The read/write station has a typical detection range of approximately 2 m, which is determined by the transponder used and can be adjusted by the setting of the transmission power. Other influencing factors include the setup and installation of the specific application and the surrounding materials, in particular metal. The separately specified read and write distances for the respective transponders have been determined in a test laboratory under ideal conditions. For the actual read and write distances under real conditions, the combination of read/write station and transponder must be tested in the desired application.

Parameterization

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

Dimensions

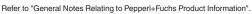


Technical Data

General	specific	ations

Operating frequency 920.5 ... 924.5 MHz: China Transmission licenses for other countries on request

Emitted power 3 ... 800 mW ERP adjustable

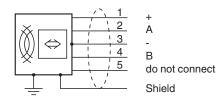


Technical Data Operating distance typ. 2 m **UL File Number** E468231 **MTBF** 105 a (Operation at +40 °C) Indicators/operating means LED green Power on LED yellow Read/write operation successful LED blue Transmission mode **Electrical specifications** Rated operating voltage U_{e} $20 \dots 30 \ V \ DC$, ripple $10 \ \%_{SS}$ ≤ 450 mA Current consumption P_0 Power consumption ≤9 W Surge protection category 2 Interface Physical RS-485 point-to-point connection Protocol Transfer rate 1200, 2400, 4800, 9600, 19200, 38400 (default) Bit/s Standard conformity EN 60529 Degree of protection **RFID** ISO/IEC 18000-63 Approvals and certificates SRRC approval CMIIT ID: 2021DJ7816 **Ambient conditions** Classification Environmental condition A (controlled environment) -20 ... 70 °C (-4 ... 158 °F) (Operation with nontransmission periods, adjustable) -20 ... 60 °C (-4 ... 140 °F) (Continuous transmission mode) Ambient temperature Storage temperature -40 ... 85 °C (-40 ... 185 °F) Pollution degree 2 **Mechanical specifications** Housing length 114 mm Housing width 112 mm Housing height 63 mm IP67 Degree of protection connector M12 x 1 Connection Material PA 6.6 Housing Base diecast aluminum

Connection

Mass





860 g

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.

Accessories

	IUC76-F157-T19-M-FR2	Data carrier for autoclave applications
M C W	IUC77-25L100-GBL 1000pcs	Data carrier
1111	IUC77-28L90-M-FR2 25pcs	Data carrier
	IUC77-34-M-FR2 10pcs	Data carrier
	IUC77-50-FR2 10pcs	Data carrier
	IUZ-MH13	Mounting bracket for wall mounting
	IUZ-MH15	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm
66	V1-G-2M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
66	V1-G-5M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
66	V1-G-10M-PUR-ABG- V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded