



# Read/write station

### IUT-F190-B40-2V1D-FR1-01

- Ready-made PLC function blocks designed for quick and easy system integration
- Compact and robust housing for harsh industrial environments
- Switchable antenna polarization guarantees reliable tag detection and enhances process flow
- LED status indicator for bus communication and read/write station
- Network loop through by means of integrated 2 port switch
- Flexible UHF read/write station with medium detection range
- Multi-tag reading increases productivity

UHF read/write station, Europe



#### **Function**

The compact read/write station IUT-F190-B40-2VD1-\* operates in the UHF frequency range and is optimized for industrial use over medium distances. The device writes and reads passive transponders according to EPC Gen2 (ISO/IEC 18000-63). The read/write station complies with the respective local radio regulations.

Extensive possibilities for data filtering are supported. The read/write station has an ethernet 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 about 2 m, which is determined by the transponder used and can be adjusted by setting the transmission power. Further influencing factors are the mounting or installation for the specific application and the surrounding materials, especially 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 read/write station and transponder must be tested in the desired application.

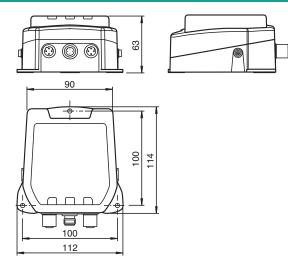
#### **Application**

This product is a wireless device and may be operated only in the country for which a transmission license exists. 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.

#### **Dimensions**





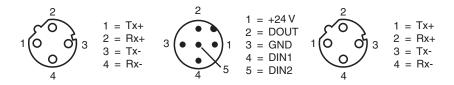
Technical Data

#### **General specifications** 865 ... 868 MHz: EU, Turkey Operating frequency Transmission licenses for other countries on request **Emitted power** 3 ... 1000 mW ERP adjustable Operating distance typ. 2 m Indicators/operating means Power on LED green LED yellow Read/write operation successful LED blue Transmission mode green: network connection LED Link/Traffic yellow: flashes in rhythm with the transmitted data **Electrical specifications** 20 ... 30 V DC, PELV Rated operating voltage $U_{\text{e}}$ Ripple ≤ 10 % at 30 V DC Current consumption ≤ 500 mA Power consumption $P_0$ ≤ 10 W Surge protection category 2 Interface 1 Physical Ethernet Protocol HTTP EtherNet/IP PROFINET IO Transfer rate 10 MBit/s or 100 MBit/s Interface 2 Physical Ethernet Protocol HTTP EtherNet/IP **PROFINET IO** Transfer rate 10 MBit/s or 100 MBit/s **Directive conformity** Radio equipment Directive 2014/53/EU EN 301489-1 EN 301489-3 EN 302208 EN 62368-1 EN 62311 EN 50364 RoHS Directive 2011/65/EU (RoHS) IEC/EN 63000 Standard conformity EN 60529 Degree of protection **RFID** ISO/IEC 18000-63 **Ambient conditions** Classification Environmental condition A (controlled environment) -20 ... 70 °C (-4 ... 158 °F) (Operation with nontransmission periods, adjustable) -20 ... 50 °C (-4 ... 122 °F) (Continuous transmission mode) Ambient temperature Storage temperature -40 ... 85 °C (-40 ... 185 °F) Pollution degree Mechanical specifications Housing length 114 mm Housing width 112 mm 63 mm Housing height Degree of protection Connection Power supply: M12 connector Protective earth: M4 earthing screw Ethernet: M12 plug connection Material Housing PA 6.6

#### **Technical Data**

Base	diecast aluminum
Mass	770 g

# **Connection Assignment**



# **Accessories**

	IUC76-34-M-FR1	Data carrier
	IUC76-50-FR1	Data carrier
	IUC76-F157-T17-M-FR1	Data carrier for standard applications
4 4 4	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
100円	IUC77-25L100-GBL 1000pcs	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
	V15-G-2M-PUR-ABG	Female cordset single-ended M12 straight A-coded, 5-pin, PUR cable grey, shielded
	V15-G-5M-PUR-ABG	Female cordset single-ended M12 straight A-coded, 5-pin, PUR cable grey, shielded
	V15-G-10M-PUR-ABG	Female cordset single-ended M12 straight A-coded, 5-pin, PUR cable grey, shielded
	V1SD-G-2M-PUR-ABG- V45-G	Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e
2	V1SD-G-5M-PUR-ABG- V45-G	Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e
	V1SD-G-10M-PUR-ABG- V45-G	Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e