

RFID read/write device IUT-F190-B40-2V1D-FR2-13

- Compact, high-performance UHF RFID read/write device for medium detection ranges
- Rugged housing for harsh industrial environments
- Switchable antenna polarization and multi-tag reading
- Clearly visible LED status indicator
- Integrated 2-port switch enables line or ring topology
- Simple operation and configuration via integrated web server
- OPC UA Server and AutoID Companion Specification enable standardized communication
- Easy integration into IT systems via REST API

UHF RFID read/write device, Malaysia

Function

The compact read/write device 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 device complies with the respective local radio regulations.

Extensive possibilities for data filtering are supported. The read/write device has an ethernet interface and is connected via an 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 about 2 m, which is determined by the transponder used and can be adjusted by setting the

The read/write device 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 device and transponder must be tested in the desired application.

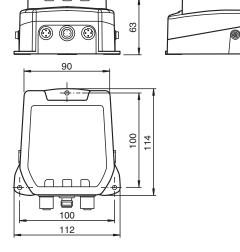
Application

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.

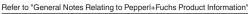
In the event of an infringement, the purchaser is obliged to indemnify the supplier against any resulting damages, costs, penalty payments and other expenses.

Dimensions



Technical Data

General specifications 919 MHz ... 923 MHz: Malaysia Operating frequency Transmission licenses for other countries on request **Emitted power** 3 ... 800 mW ERP adjustable **MTBF** 55 a (Operation at +40 °C) 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_{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 HTTP (REST API) OPC UA (AutoID Companion Specification) EtherNet/IP Protocol **PROFINET IO** Transfer rate 10 MBit/s or 100 MBit/s Interface 2 Physical Ethernet HTTP (REST API) OPC UA (AutoID Companion Specification) Protocol EtherNet/IP **PROFINET IO** Transfer rate 10 MBit/s or 100 MBit/s Standard conformity Degree of protection EN 60529 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 -40 ... 85 °C (-40 ... 185 °F) Storage temperature Pollution degree 2 **Mechanical specifications** IP67 Degree of protection Power supply: M12 connector Protective earth: M4 earthing screw Connection Ethernet: M12 plug connection Material PA 6.6 Housing



Base

Dimensions Height

Width

Length

Mass

diecast aluminum

820 g

63 mm

112 mm

114 mm

Connection Assignment