



RFID read/write device IUH-F190-V1-FR1-15

- Flexible UHF read/write device with medium detection range
- 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
- For connection to IDENTControl control interface
- Multi-tag reading increases productivity

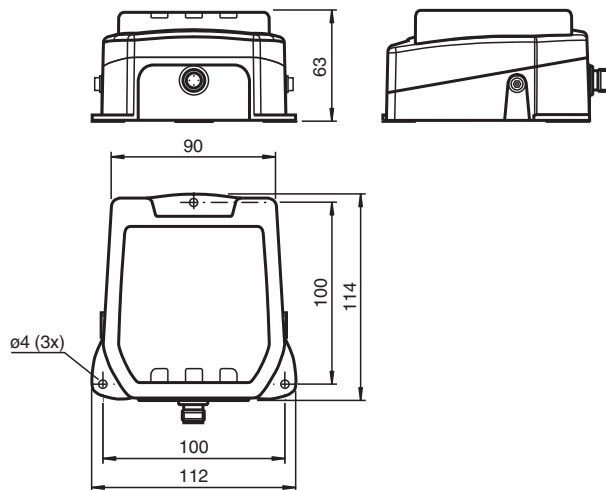
UHF RFID read/write device for IDENTControl, Morocco



Function

The read/write head 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 head is compliant with the relevant transmission regulations. The read/write head can be used in Morocco. Wide range of options supported for filtering data. The read/write head is connected to the IDENTControl interface using an M12 connector. The user can monitor the status of the read/write head using the integrated LEDs. The read/write head 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 head 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 |
| MTBF | 105 a (Operation at +40 °C) |

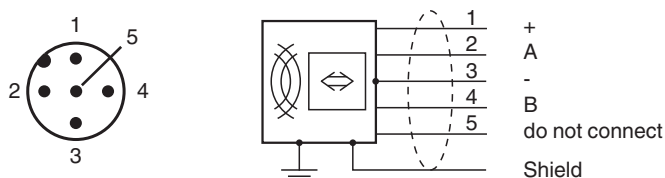
Indicators/operating means

| | |
|-----------|----------|
| LED green | Power on |
|-----------|----------|

Technical Data

| | | |
|----------------------------------|----------------|--|
| LED yellow | | Read/write operation successful |
| LED blue | | Transmission mode |
| Electrical specifications | | |
| Current consumption | | ≤ 450 mA |
| Power consumption | P ₀ | ≤ 9 W |
| Supply | | from the IDENTControl |
| Surge protection | | category 2 |
| Standard conformity | | |
| Degree of protection | | EN 60529 |
| RFID | | ISO/IEC 18000-63 |
| 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 | | 114 mm |
| Housing width | | 112 mm |
| Housing height | | 63 mm |
| Degree of protection | | IP67 |
| Connection | | connector M12 x 1 |
| Material | | |
| Housing | | PA 6.6 |
| Base | | diecast aluminum |
| Mass | | 810 g |












Connection



Accessories

| | | |
|--|--------------------------|--|
| | IC-KP-B17-AIDA1 | IDENTControl control interface with Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols |
| | IC-KP2-2HRX-2V1 | Control interface unit IDENTControl Compact with serial interface RS-232 and RS-485 |
| | IC-KP2-2HB6-V15B | Control interface unit IDENTControl Compact with interface for PROFIBUS DP |
| | IC-KP2-2HB17-2V1D | IDENTControl Compact control interface with Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols |
| | IC-KP2-2HB21-2V1D | Control interface unit IDENTControl Compact with EtherCAT interface |

Accessories

| | | |
|---|-------------------------------------|---|
|  | IUC76-F157-T17-M-FR1 | Data carrier for standard applications |
|  | IUC76-F157-T18-M-FR1 | Data carrier for paint shop applications |
|  | IUC77-25L100-GBL 1000pcs | Data carrier |
|  | IUC77-28L90-M-FR1 25pcs | Data carrier |
|  | IUC77-34-M-FR1 10pcs | Data carrier |
|  | IUC77-50-FR1 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 |
|  | 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 |