# RFID read/write device

# IUH-F192-V1-FR2-02

- Flexible UHF read/write head with long range for use worldwide
- 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 IDENT*Control* evaluation unit
- Multi-tag reading increases productivity

UHF RFID read/write device for IDENTControl, USA, Canada and Argentina

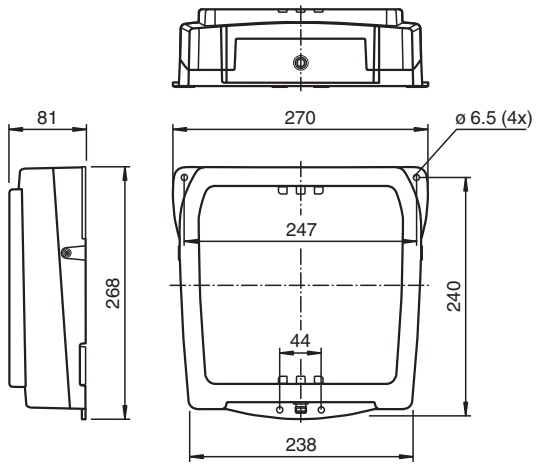
## Function

The IUH-F192-V1-FR2-02 read/write head operates in the UHF frequency range and is optimized for use in industrial applications involving greater distances. The device reads and writes passive tags according to EPC Generation 2 (ISO/IEC 18000-63). The read/ write head can be operated in the USA, Canada and Argentina. The read/write head complies with the respective radio regulations.
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 approx. 3 meters; this range is determined by the tag used and can be changed by adjusting the transmission power. Other influencing factors are the application specific setup and surrounding materials, particularly metal. The read and write distances measured under ideal conditions can be found in a separate document. For the actual read and write distances under real conditions, the combination of read/write head and tag must be tested in the intended 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




## Technical Data

**General specifications**

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## Technical Data

| | | |
|---|---|---|
| Operating frequency | | 902 … 928 MHz: USA, Canada, Argentina<br>Transmission licenses for other countries on request |
| Emitted power | | 10 ... 4000 mW EIRP adjustable |
| MTBF | | 64 a (Operation at +40 °C) |
| **Indicators/operating means** | | |
| LED green | | Power on |
| LED yellow | | Read/write operation successful |
| LED blue | | Transmission mode |
| **Electrical specifications** | | |
| Power consumption | $P_0$ | ≤ 10 W |
| Supply | | from the IDENTControl |
| **Standard conformity** | | |
| Degree of protection | | EN 60529 |
| RFID | | ISO/IEC 18000-63 |
| **Approvals and certificates** | | |
| UL approval | | E468231<br>cULus Listed, Class 2 Power Source, Type 1 enclosure |
| FCC approval | | This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:<br>(1) This device may not cause harmful interference, and<br>(2) This device must accept any interference received, including interference that may cause undesired operation.<br>**Caution:**<br>Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. |
| IC approval | | This device complies with Industry Canada licence-exempt RSS standard(s) and with part 15 of the FCC Rules. Operation is subject to the following two conditions:<br>(1) this device may not cause interference, and<br>(2) this device must accept any interference, including interference that may cause undesired operation of the device.<br>Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :<br>(1) l'appareil ne doit pas produire de brouillage, et<br>(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. |
| Radio approval | | USA: FCC IREIUHF192V1B<br>Canada: 7037A-IUHF192V1B<br>Argentina: H-31068 |
| **Ambient conditions** | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | | -40 ... 85 °C (-40 ... 185 °F) |
| **Mechanical specifications** | | |
| Degree of protection | | IP67 |
| Connection | | connector M12 x 1 |
| Material | | |
| Housing | | PA 6 |
| Base | | diecast aluminum |
| Mass | | approx. 3000 g |
| Dimensions | | |
| Height | | 81 mm |
| Width | | 270 mm |
| Length | | 268 mm |

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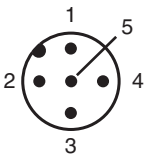
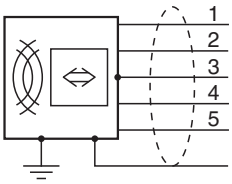
## Connection




\+
A
\-
B
do not connect
Shield

## Safety Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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