



## RFID read/write device

### IUH-F190-V1-FR1-05

- 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 evaluation unit
- Multi-tag reading increases productivity

## UHF RFID read/write device for IDENTControl, Singapore

### Function

The compact IUH-F190-V1-FR1-05 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 in line with EPC Generation 2 (ISO/IEC 18000-63). The read/write head can be used in Singapore. The read/write head is compliant with the relevant transmission 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.

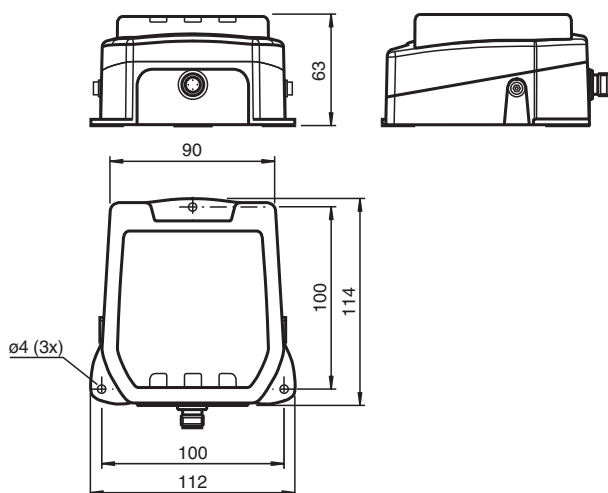
The read/write head has a typical detection range of around 2 meters; this range is determined by the tag used and can be adjusted by configuring the transmission power. Other influencing factors include the setup and installation of the specific application and the surrounding materials, particularly 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.

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

Operating frequency

866 ... 868 MHz: Singapore

Transmission licenses for other countries on request

### Technical Data

Emitted power		3 ... 500 mW ERP adjustable
MTBF		105 a (Operation at +40 °C)
<b>Indicators/operating means</b>		
LED green		Power on
LED yellow		Read/write operation successful
LED blue		Transmission mode
<b>Electrical specifications</b>		
Current consumption		≤ 450 mA
Power consumption	P <sub>0</sub>	≤ 9 W
Supply		from the IDENTControl
Surge protection		category 2
<b>Standard conformity</b>		
Degree of protection		EN 60529
RFID		ISO/IEC 18000-63
<b>Ambient conditions</b>		
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
<b>Mechanical specifications</b>		
Degree of protection		IP67
Connection		connector M12 x 1
Material		
Housing		PA 6.6
Base		diecast aluminum
Mass		810 g
Dimensions		
Height		63 mm
Width		112 mm
Length		114 mm

### Connection

