

# CE

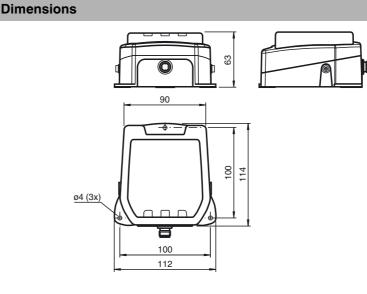
# **Model Number**

# IUH-F190-V1-FR1-01

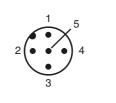
UHF read/write head for IDENTControl, Europe

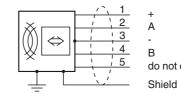
#### Features

- · Flexible UHF read/write head with medium detection range
- Ready-made PLC function blocks de-• signed for quick and easy system integration
- Compact and robust housing for • harsh industrial environments
- Switchable antenna polarization guar-٠ antees reliable tag detection and enhances process flow
- Multi-tag reading of up to 40 tags en-٠ sures increased productivity
- For connection to IDENTControl con-• trol interface



# **Electrical connection**





do not connect

General specifications	
Operating frequency	865 868 MHz: EU, Turkey Transmission licenses for other countries on request
Emitted power	3 1000 mW ERP adjustable
Operating distance	typ. 2 m
Indicators/operating means	
LED green	Power on
LED yellow	Read/write operation successful
LED blue	Transmission mode
Electrical specifications	
Current consumption	≤ 450 mA
•	P <sub>0</sub> ≤9W
Supply	from the IDENTControl
Surge protection	category 2
Directive conformity	
Radio and telecommunication termin equipment	nal
Directive 2014/53/EU	EN 301489-1 V2.1.1:2017 EN 301489-3 V2.1.1:2017 EN 302208 V3.1.1:2016 EN 50364:2010 EN 62368-1:2014+AC:2015
Standard conformity	
Degree of protection	EN 60529:2000
Ambient conditions	
Classification	Environmental situation A (controlled environment)
Ambient temperature	-20 70 °C (-4 158 °F) (Operation with nontransmission peri ods, adjustable) -20 60 °C (-4 140 °F) (Continuous transmission mode)
Storage temperature	-40 85 °C (-40 185 °F)
Pollution degree	2
Mechanical specifications	
Degree of protection	IP67
Connection	M12 x 1 connector
Material	
Housing	PA 6
Base	diecast aluminum
Mass	810 g

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 Pepperl+Fuchs Group

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# Notes

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.

# Function

The compact IUH-F190-V1-FR1-01 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 locations including Europe. 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 IDENT*Control* 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.

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#### Accessories

## IC-KP-B17-AIDA1

**IDENTControl control interface** With Ethernet interface for TCP/IP. PROFINET, EtherNet/IP, and MODBUS TCP protocols

# IC-KP2-1HB17-2V1D

IDENTControl Compact control interface With Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols

#### IC-KP2-2HB17-2V1D

IDENTControl Compact control interface With Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols

# IC-KP2-1HB6-V15B

Control interface unit **IDENTControl Compact** with PROFIBUS DP interface

#### IC-KP2-2HB6-V15B

Control interface unit **IDENTControl Compact** with PROFIBUS DP interface

#### IC-KP2-1HB6-2V15B

Control interface unit **IDENTControl Compact** with PROFIBUS DP interface

#### IC-KP2-1HRX-2V1 Control interface unit **IDENTControl Compact** with serial interface RS-232 and RS-485

#### IC-KP2-2HRX-2V1

Control interface unit **IDENTControl Compact** with serial interface RS-232 and RS-485

# IC-KP2-2HB21-2V1D

Control interface unit **IDENTControl Compact** with EtherCAT interface

# V1-G-5M-PUR-ABG-V1-W

Connecting cable, M12 to M12, PUR cable 4-pin, shielded

# V1-G-10M-PUR-ABG-V1-W

Connecting cable, M12 to M12, PUR cable 4-pin, shielded

# IUC72-F152-M-FR1

Data carrier

# IUC76-50-FR1 Data carrier

IUC76-F157-M-FR1 Data carrier

IUC76-F203-M-FR1 10pcs Data carrier

IUC77-F151-M-GBL Data carrier

IUC77-25L110-GBL 1000pcs Data carrier

# IUZ-MH12

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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# IUH-F190-V1-FR1-01

# Accessories

Mounting bracket for pole and wall mounting

**IUZ-MH13** Mounting bracket for wall mounting

### IUZ-MH15

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

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