



### Model Number

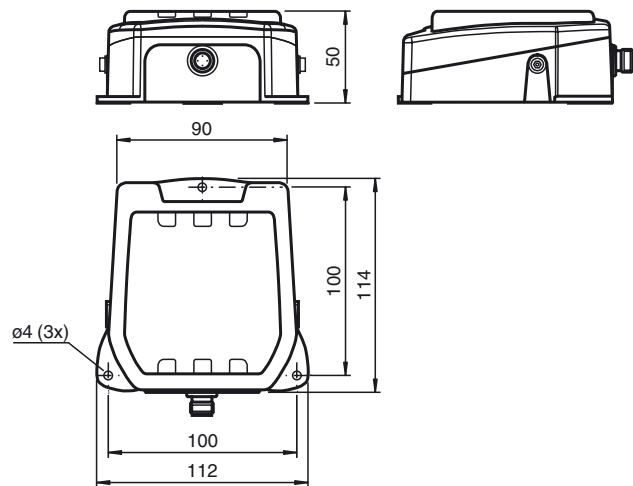
#### IUH-F190-V1-EU

UHF read/write head, for IDENTControl, Europe, the Middle East, and Africa

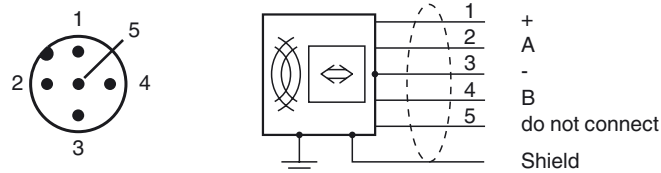
### Features

- Most flexible midrange UHF read/write head for worldwide use
- Ready-made PLC function blocks designed for quick and easy system integration
- Compact and robust housing for harsh industrial environments
- Multi-tag reading of up to 40 tags ensures increased productivity

### Dimensions



### Electrical connection



### Technical data

#### General specifications

Operating frequency	865 MHz ... 868 MHz: EU, Oman, South Africa, Turkey 865 MHz ... 867 MHz: India 866 MHz ... 867.6 MHz: Russia Transmission licenses for other countries on request
Emitted power	20 mW ... 200 mW ERP, adjustable
Operating distance	typ. 1 m

#### Indicators/operating means

LED green	Power on
LED yellow	Read/write operation successful
LED blue	Transmission mode

#### Electrical specifications

Power consumption	$P_0$	$\leq 7$ W
Supply	from the IDENTControl	

#### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F) (Operation with nontransmission periods, adjustable) -25 ... 50 °C (-13 ... 122 °F) (Continuous transmission mode)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

#### Mechanical specifications

Degree of protection	IP67
Connection	M12 x 1 connector
Material	
Housing	PA 6
Base	diecast aluminum
Mass	approx. 800 g

#### Compliance with standards and directives

Directive conformity	
R&TTE Directive 1995/5/EC	EN 301489-1 V1.9.2:2011 EN 301489-3 V1.4.1:2003 EN 302208-2 V1.4.1:2012 EN 60950-1:2006/A1:2010 EN 50364:2010
Standard conformity	
Degree of protection	EN 60529:2000

#### Approvals and certificates

## Radio approval

EU: PF13CERT2611  
 India: ETA-103/2016-RLO(SR)/2442  
 Oman: TRA/TA-R/1745/14  
 South Africa: TA-2016/3103

## 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-EU read/write head operates in the UHF frequency range and is optimized for use in industrial applications involving shorter distances. The device reads and writes passive tags in line with EPC Generation 2 (ISO/IEC 18000-63). The dense reader mode that has been implemented, which operates in accordance with ETSI EN 302208-1, prevents read/write heads installed in close proximity from interfering with one another.

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 1 meter; this range is determined by the tag used and can be adjusted by selecting the transmission power. Other influencing factors include the setup and installation for the specific application in question, interference from materials present in the area (in particular metal), and the ambient conditions. The read and write distances for the relevant tag, which are detailed separately, have been established in a test laboratory under ideal conditions. For this reason, the combination of read/write head and tag must be tested for the intended application under real conditions.

**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

Release date: 2017-10-26 12:18 Date of issue: 2017-10-27 23:0471\_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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**Accessories****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 ca-  
ble 4-pin, shielded

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

Connecting cable, M12 to M12, PUR ca-  
ble 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

**IUC77-25L100-GBL 1000pcs**

Data carrier

**IUC77-25L110-GBL 1000pcs**

Data carrier

**IUZ-MH12**

Mounting bracket for pole and wall mount-  
ing

**IUZ-MH13**

Mounting bracket for wall mounting

**IUZ-MH15**

Mounting aid for round steel  $\varnothing$  12 mm or  
sheet 1.5 mm ... 3 mm

**Accessories****IUC76-F157-T17-M-FR1**

Data carrier for standard applications

**IUC76-F157-T17-M-FR2**

Data carrier for standard applications

**IUC76-F157-T18-M-FR1**

Data carrier for paint shop applications

**IUC76-F157-T18-M-FR2**

Data carrier for paint shop applications

**IUC76-F157-T19-M-FR1**

Data carrier for autoclave applications

**IUC76-F157-T19-M-FR2**

Data carrier for autoclave applications