



Model Number

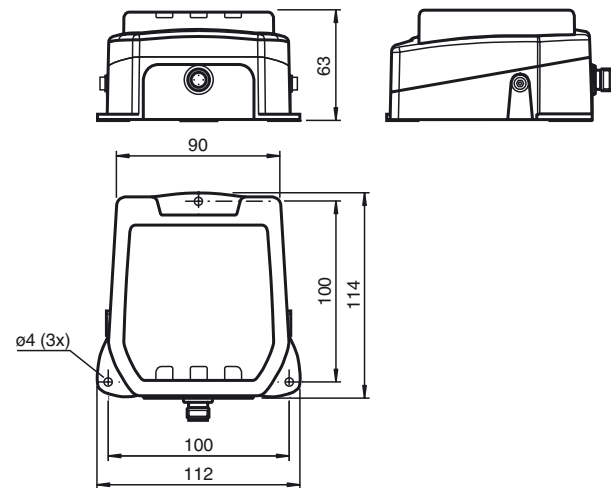
IUH-F190-V1-FR1-05

UHF read/write head for IDENTControl, Singapore and Vietnam

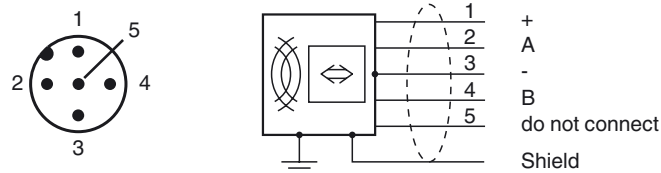
Features

- Flexible UHF read/write head 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
- Multi-tag reading of up to 40 tags ensures increased productivity
- For connection to IDENTControl control interface

Dimensions



Electrical connection



Technical data

General specifications

Operating frequency	866 MHz ... 868 MHz: Singapore, Vietnam Transmission licenses for other countries on request
Emitted power	3 ... 500 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
Power consumption	P_0 ≤ 9 W
Supply	from the IDENTControl
Surge protection	category 2

Standard conformity

Electromagnetic compatibility	EN 301489-1 V2.1.1:2017 EN 301489-3 V2.1.1:2017
Degree of protection	EN 60529:2000
Safety	EN 62368-1:2014+AC:2015

Ambient conditions

Classification	Environmental situation 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

Degree of protection	IP67
Connection	M12 x 1 connector
Material	
Housing	PA 6
Base	diecast aluminum
Mass	810 g

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-FR1-05 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 and Vietnam. 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.

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 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

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

Accessories

Data carrier

IUZ-MH12

Mounting bracket for pole and wall mounting

IUZ-MH13

Mounting bracket for wall mounting

IUZ-MH15

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