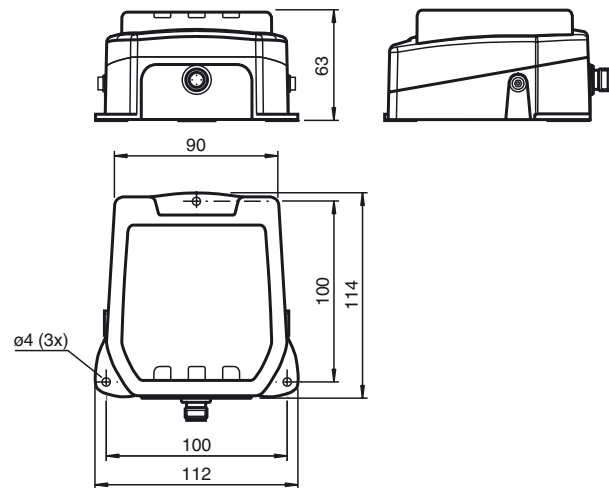## Model Number

IUH-F190-V1-FR1-15

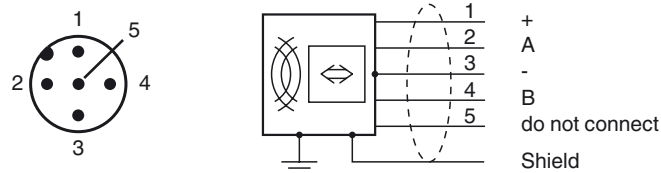UHF read/write head for IDENT*Control*, Morocco

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 IDENT*Control* control interface

Dimensions

Electrical connection

1	+
2	A
3	-
4	B
5	do not connect
	Shield

Technical data

General specifications

Operating frequency	867.6 … 868 MHz: Morocco 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

Directive conformity

Radio and telecommunication terminal equipment	
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 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

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".

Pepperl+Fuchs Group	USA: +1 330 486 0001	Germany: +49 621 776 4411	Singapore: +65 6779 9091	**PEPPERL+FUCHS**
www.pepperl-fuchs.com	fa-info@us.pepperl-fuchs.com	fa-info@de.pepperl-fuchs.com	fa-info@sg.pepperl-fuchs.com	SENSING YOUR NEEDS

1

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-FR1-15 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 Morocco. 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.

Release date: 2018-05-07 16:32   Date of issue: 2018-05-07   318799_eng.xml

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

2   Pepperl+Fuchs Group   USA: +1 330 486 0001   Germany: +49 621 776 4411   Singapore: +65 6779 9091

www.pepperl-fuchs.com   fa-info@us.pepperl-fuchs.com   fa-info@de.pepperl-fuchs.com   fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

SENSING YOUR NEEDS

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	USA: +1 330 486 0001	Germany: +49 621 776 4411	Singapore: +65 6779 9091
www.pepperl-fuchs.com	fa-info@us.pepperl-fuchs.com	fa-info@de.pepperl-fuchs.com	fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS
SENSING YOUR NEEDS

3

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

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

PEPPERL+FUCHS
SENSING YOUR NEEDS