



Model Number

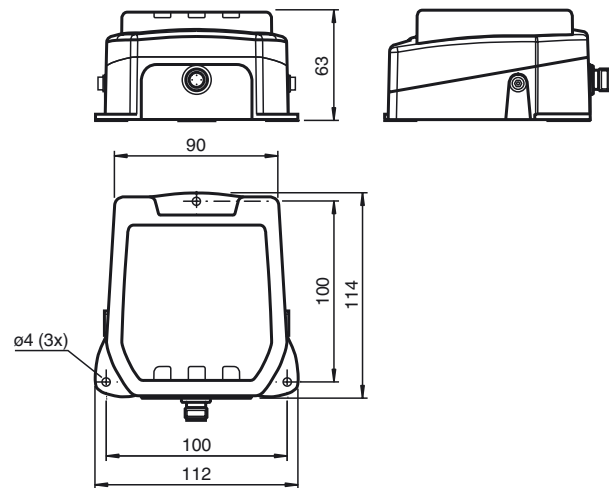
IUH-F190-V1-FR2-02

UHF read/write head for IDENTControl—USA and Canada

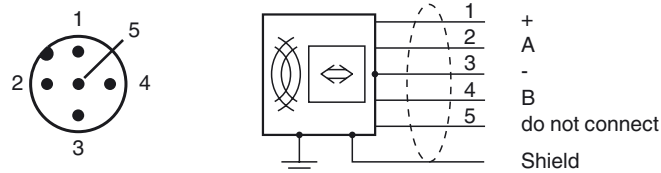
Features

- 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
- Switchable antenna polarization guarantees reliable tag detection and enhances process flow
- Multi-tag reading of up to 40 tags ensures increased productivity

Dimensions



Electrical connection



Technical data

General specifications

Operating frequency	902 ... 928 MHz: USA, Canada Transmission licenses for other countries on request
Emitted power	3 ... 1250 mW EIRP 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

Power consumption	P_0 ≤ 9 W
Supply	from the IDENTControl

Standard conformity

Electromagnetic compatibility	EN 301489-1 V2.1.1:2017 EN 301489-3 V1.6.1:2013
Degree of protection	EN 60529:2000
Safety	EN 60950-1/A2:2013

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. 900 g

Approvals and certificates

UL approval	UL 61010-1 3rd Edition CSA C22.2 NO. 61010-1-12 3rd Edition (EN 60950-, EN 60529 and IP67 are not included)
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FCC approval

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
Caution:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC approval

This device complies with Industry Canada licence-exempt RSS standard(s) and with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Notes

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Function

The compact IUH-F190-V1-FR2-02 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 the United States and Canada. 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.

Release date: 2017-06-30 17:32 Date of issue: 2017-07-06 283538_eng.xml

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-FR2

Data carrier

IUC76-50-FR2

Data carrier

IUC76-F157-M-FR2

Data carrier

IUC76-F203-M-FR2 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".

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**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