



Model Number

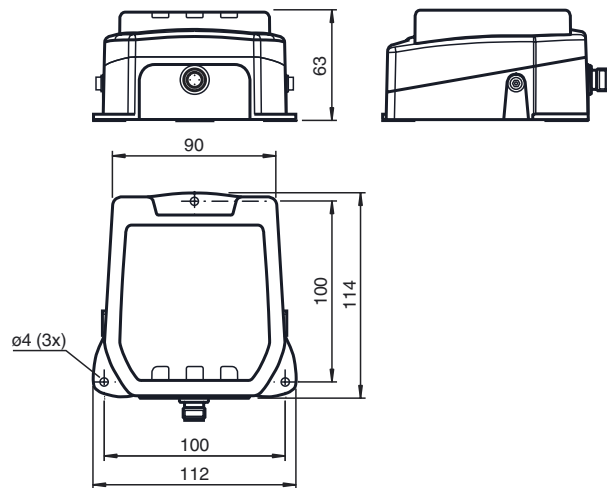
IUH-F190-V1-FR2

UHF read/write head, for IDENTControl, Asia and America, excluding Canada, USA, and Mexico

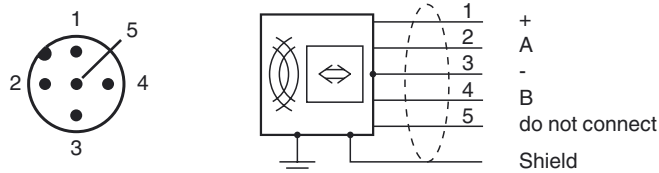
Features

- 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	920.0 MHz ... 926.0 MHz: Australia 920.5 MHz ... 924.5 MHz: China 915.0 MHz ... 928.0 MHz: Brazil 916.7 MHz ... 920.5 MHz: Japan 919.0 MHz ... 923.0 MHz: Malaysia 921.5 MHz ... 928.0 MHz: New Zealand 917.2 MHz ... 920.4 MHz: South Korea 920.0 MHz ... 925.0 MHz: Singapore, Vietnam 920.0 MHz ... 925.0 MHz: Thailand, Hong Kong
Emitted power	50 ... 500 mW EIRP = 30 ... 300 mW ERP adjustable
Operating distance	typ. 1 m
UL File Number	468231

Indicators/operating means

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

Electrical specifications

Power consumption	P_0	≤ 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. 900 g

Compliance with standards and directives

Standard conformity	
Electromagnetic compatibility	EN 301489-1 V1.9.2:2011 EN 301489-3 V1.4.1:2003
Safety	EN 60950-1:2006/A1:2010
Degree of protection	EN 60529:2000

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)
Radio approval	China: CMIIT ID 2014DJ1548

Function

The compact IUH-F190-V1-FR2 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 according to EPC Generation 2 (ISO/IEC 18000-63). The read/write head can be operated in different countries, e.g. China. The read/write head complies with the respective radio 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 approx. 1 meter; this range is determined by the tag used and can be changed by adjusting the transmission power. Other influencing factors are the application specific setup and surrounding materials, particularly metal. The read and write distances measured under ideal conditions can be found in a separate document. For the actual read and write distances under real conditions, the combination of read/write head and tag must be tested in the intended application.

Accessories**IUC76-F203-M-FR2 10pcs**

Data carrier

IUZ-MH12

Mounting bracket for pole and wall mounting

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-FR2

Data carrier

IUC76-F157-M-FR2-Y

Data carrier

IUC76-50-M-FR2

Data carrier

IUC76-50-FR2

Data carrier

IC-KP-B17-AIDA1IDENTControl control interface
With Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols**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-KP2-1HB6-V15B**Control interface unit
IDENTControl Compact
with PROFIBUS DP interface**IC-KP2-1HB6-2V15B**Control interface unit
IDENTControl Compact
with PROFIBUS DP interface**IC-KP2-2HB6-V15B**Control interface unit
IDENTControl Compact
with PROFIBUS DP interface**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**IUC76-F157-M-FR2**

Data carrier

IUC76-C8-T14-GBL

Data carrier

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

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Accessories

IUC77-F151-M-GBL

Data carrier

IUC77-25L100-GBL 1000pcs

Data carrier

IUC77-25L110-GBL 1000pcs

Data carrier