CE

Model Number

IUH-F190-V1-EU

UHF read/write head, for IDENT*Control*, Europe, the Middle East, and Africa

Features

- 2 x 3 function indicator LEDs
- Connection via V1 (M12 x 1) plug connection

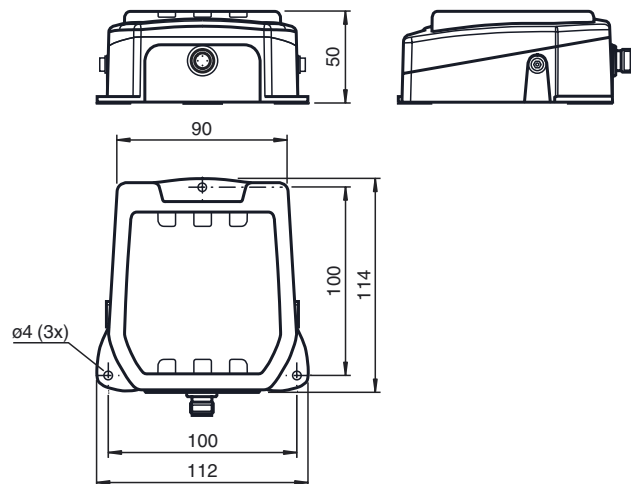## Function

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.
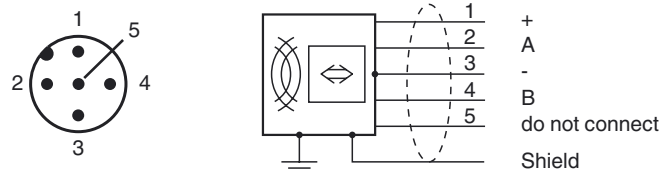Wide range of options supported for filtering data. The read/write head is connected to the IDENT*Control* interface using an M12 connector. The user can monitor the status of the read/write head using the integrated LEDs.
The read/write head has a typical detection range of around 1 meter; this range 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.

Dimensions

Electrical connection

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

Technical data

General specifications	
Operating frequency	865 MHz … 868 MHz: EU, Oman 866 MHz … 868 MHz: Singapore, Vietnam
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	≤ 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 Oman: TRA/TA-R/1745/14 Vietnam: A0408290414AF04A2

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

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Accessories

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-F151-M-FR1
Data carrier

IUC72-F152-M-FR1
Data carrier

IUC76-50-M-FR1
Data carrier

IUC76-50-FR1
Data carrier

IUC76-F203-M-FR1 10pcs
Data carrier

IC-KP-B17-AIDA1
IDENTControl 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-C8-T14-GBL
Data carrier

IUC76-23L50-M-FR1-VW
Data carrier

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

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Accessories

IUC76-F157-M-FR1
Data carrier

IUC77-F151-M-GBL
Data carrier

IUC77-25L100-GBL 1000pcs
Data carrier

IUC77-25L110-GBL 1000pcs
Data carrier

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