

## RFID read/write device

### IUH-F190-V1-FR1-15



- Flexible UHF read/write device 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
- For connection to IDENTControl control interface
- Multi-tag reading increases productivity

UHF RFID read/write device for IDENTControl, Morocco



#### Function

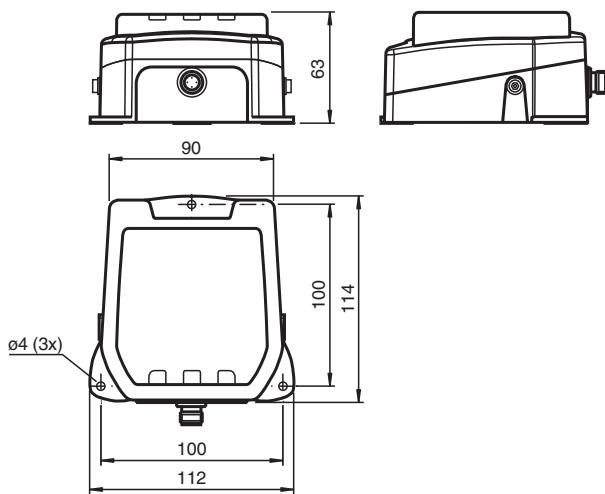
The read/write head operates in the UHF frequency range and is optimized for use in industrial applications involving medium distances. The device reads and writes passive tags acc. to EPC Generation 2 (ISO/IEC 18000-63). The read/write head is compliant with the relevant transmission regulations.

The read/write head can be used in Morocco.

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.

#### Dimensions



#### Technical Data

##### General specifications

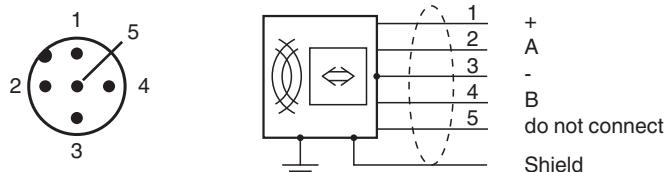
Operating frequency	867.6 ... 868 MHz: Morocco Transmission licenses for other countries on request
Emitted power	3 ... 500 mW ERP adjustable
Operating distance	typ. 2 m
MTBF	105 a (Operation at +40 °C)
Indicators/operating means	

LED green	Power on
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## Technical Data

LED yellow	Read/write operation successful
LED blue	Transmission mode
<b>Electrical specifications</b>	
Current consumption	≤ 450 mA
Power consumption	$P_0$ ≤ 9 W
Supply	from the IDENTControl
Surge protection	category 2
<b>Standard conformity</b>	
Degree of protection	EN 60529
RFID	ISO/IEC 18000-63
<b>Ambient conditions</b>	
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
<b>Mechanical specifications</b>	
Housing length	114 mm
Housing width	112 mm
Housing height	63 mm
Degree of protection	IP67
Connection	connector M12 x 1
Material	
Housing	PA 6.6
Base	diecast aluminum
Mass	810 g

## Connection



## Accessories

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	<b>IC-KP-B17-AIDA1</b>	IDENTControl control interface with Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols
	<b>IC-KP2-2HRX-2V1</b>	Control interface unit IDENTControl Compact with serial interface RS-232 and RS-485
	<b>IC-KP2-2HB6-V15B</b>	Control interface unit IDENTControl Compact with interface for PROFIBUS DP
	<b>IC-KP2-2HB17-2V1D</b>	IDENTControl Compact control interface with Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols
	<b>IC-KP2-2HB21-2V1D</b>	Control interface unit IDENTControl Compact with EtherCAT interface

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

## Accessories

	<b>IUC76-F157-T17-M-FR1</b>	Data carrier for standard applications
	<b>IUC76-F157-T18-M-FR1</b>	Data carrier for paint shop applications
	<b>IUC77-25L100-GBL 1000pcs</b>	Data carrier
	<b>IUC77-28L90-M-FR1 25pcs</b>	Data carrier
	<b>IUC77-34-M-FR1 10pcs</b>	Data carrier
	<b>IUC77-50-FR1 10pcs</b>	Data carrier
	<b>IUZ-MH13</b>	Mounting bracket for wall mounting
	<b>IUZ-MH15</b>	Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm
	<b>V1-G-2M-PUR-ABG-V1-W</b>	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	<b>V1-G-5M-PUR-ABG-V1-W</b>	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	<b>V1-G-10M-PUR-ABG-V1-W</b>	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded