

# Read/write head

## IUH-F191-V1-FR2-02



- Ready-made PLC function blocks designed for quick and easy system integration
- Compact and robust housing for harsh industrial environments
- Multi-tag reading of up to 20 tags ensures increased productivity
- Circular antenna polarization ensures reliable transponder detection and improves process flow
- For connection to IDENTControl control interface
- Flexible UHF read/write head with short detection range

### UHF read/write head for IDENTControl, USA and Canada



The 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 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 the USA and Canada.

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 1 meter; 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.

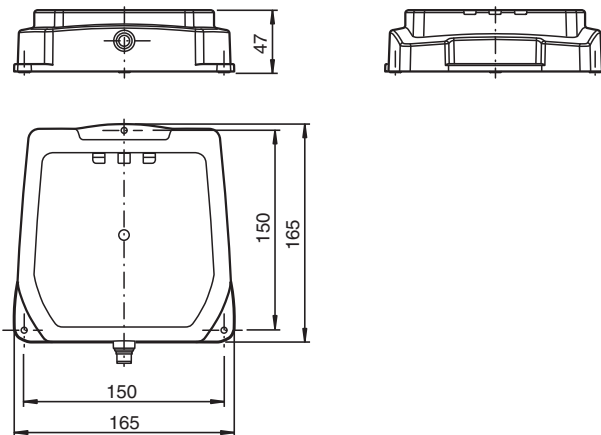
### Application

This product is a wireless device and may be operated only in the country for which a transmission license exists. 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.

### Dimensions



### Technical Data

#### General specifications

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

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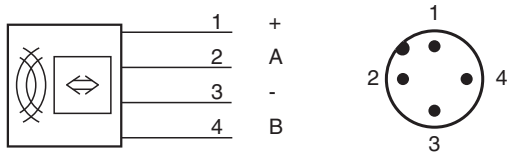
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## Technical Data

Operating frequency	902 ... 928 MHz: USA, Canada Transmission licenses for other countries on request	
Emitted power	3 ... 150 mW EIRP adjustable	
Operating distance	typ. 1 m	
<b>Indicators/operating means</b>		
LED green	Ready for operation	
LED yellow	Read/write operation successful	
LED blue	Transmission mode	
<b>Electrical specifications</b>		
Current consumption	≤ 95 mA	
Power consumption	P <sub>0</sub>	≤ 1.9 W
Supply	from the IDENTControl	
Surge protection	category 2	
<b>Standard conformity</b>		
Electromagnetic compatibility	EN 301489-1 EN 301489-3	
Degree of protection	EN 60529	
RFID	ISO/IEC 18000-63	
<b>Approvals and certificates</b>		
FCC approval	<p>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.</p> <p><b>Caution:</b>            Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p>	
IC approval	<p>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.</p> <p>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.</p>	
<b>Ambient conditions</b>		
Classification	Environmental condition A (controlled environment)	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F) (Operation with nontransmission periods) -25 ... 55 °C (-13 ... 131 °F) (Continuous transmission mode)	
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)	
Pollution degree	2	
<b>Mechanical specifications</b>		
Housing length	165 mm	
Housing width	165 mm	
Housing height	47 mm	
Degree of protection	IP67	
Connection	connector M12 x 1	
Material		
Housing	PA 6.6	
Mass	700 g	

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**Connection**



**Accessories**

	<b>IUC76-34-M-FR2</b>	Data carrier
	<b>IUC76-50-FR2</b>	Data carrier
	<b>IUC76-F157-T17-M-FR2</b>	Data carrier for standard applications
	<b>IUC76-F157-T18-M-FR2</b>	Data carrier for paint shop applications
	<b>IUC76-F157-T19-M-FR2</b>	Data carrier for autoclave applications
	<b>IUC76-28L90-M-FR2</b> 25pcs	Data carrier
	<b>IUC77-25L100-GBL</b> 1000pcs	Data carrier
	<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
	<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

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