

Read/write head

IUH-F191-V1-FR2-03



- 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, China

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 China.

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.

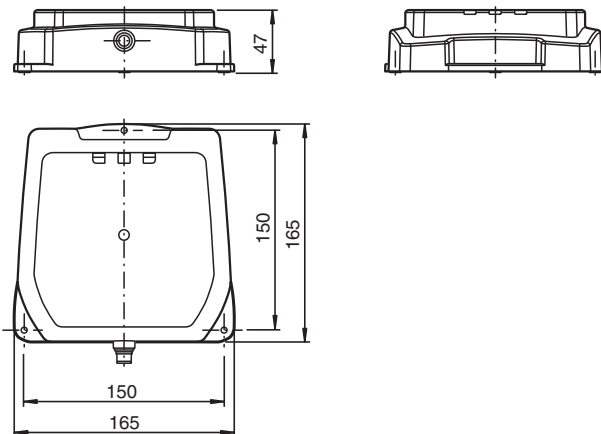
Application

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



Release date: 2021-03-10 Date of issue: 2021-03-10 Filename: 70130675_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

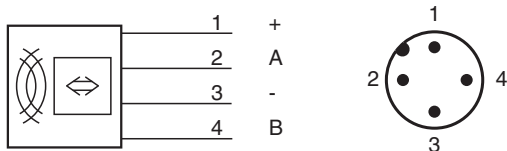
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

 PEPPERL+FUCHS



Technical Data

General specifications		
Operating frequency		920.5 ... 924.5 MHz: China Transmission licenses for other countries on request
Emitted power		3 ... 100 mW ERP adjustable
Operating distance		typ. 1 m
Indicators/operating means		
LED green		Ready for operation
LED yellow		Read/write operation successful
LED blue		Transmission mode
Electrical specifications		
Current consumption		≤ 95 mA
Power consumption	P ₀	≤ 1.9 W
Supply		from the IDENTControl
Surge protection		category 2
Standard conformity		
Electromagnetic compatibility		EN 301489-1 EN 301489-3
Degree of protection		EN 60529
RFID		ISO/IEC 18000-63
Ambient conditions		
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
Mechanical specifications		
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














Connection



Accessories

	IUC76-34-M-FR2	Data carrier
	IUC76-50-FR2	Data carrier

Accessories

	IUC76-F157-T17-M-FR2	Data carrier for standard applications
	IUC76-F157-T18-M-FR2	Data carrier for paint shop applications
	IUC76-F157-T19-M-FR2	Data carrier for autoclave applications
	IUC76-28L90-M-FR2 25pcs	Data carrier
	IUC77-25L100-GBL 1000pcs	Data carrier
	V1-G-2M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	V1-G-5M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	V1-G-10M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	IC-KP-B17-AIDA1	IDENTControl control interface with Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols
	IC-KP2-2HRX-2V1	Control interface unit IDENTControl Compact with serial interface RS-232 and RS-485
	IC-KP2-2HB6-V15B	Control interface unit IDENTControl Compact with interface for PROFIBUS DP
	IC-KP2-2HB17-2V1D	IDENTControl Compact control interface with Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols
	IC-KP2-2HB21-2V1D	Control interface unit IDENTControl Compact with EtherCAT interface