Read/write head

IUH-F192-V1-FR2

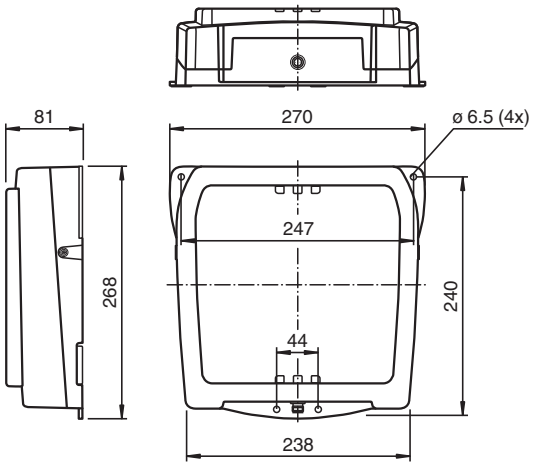
- Flexible UHF read/write head with long range for use worldwide
- Ready-made PLC function blocks designed for quick and easy system integration
- Compact and robust housing for harsh industrial environments
- Switchable antenna polarization guarantees reliable tag detection and enhances process flow
- For connection to IDENT*Control* control interface
- Multi-tag reading increases productivity

Read/Write head for IDENTControl, Asia and the Americas except Canada, United States and Mexico

Function

The IUH-F192-V1-FR2 read/write head operates in the UHF frequency range and is optimized for use in industrial applications involving greater 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. 3 meters; 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.

Dimensions



Technical Data

General specifications	
Operating frequency	920.0 MHz … 926.0 MHz: Australia 915.0 MHz … 928.0 MHz: Brazil 920.5 MHz … 924.5 MHz: China 919.0 MHz … 923.0 MHz: Malaysia 921.5 MHz … 928.0 MHz: New Zealand Transmission licenses for other countries on request
Emitted power	10 ... 4000 mW EIRP = 6 ... 2400 mW ERP adjustable
Operating distance	typ. 4 m
Functional safety related parameters	
$MTTF_d$	128 a

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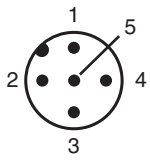
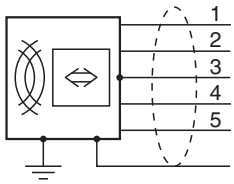
Technical Data

Indicators/operating means		
LED green		Power on
LED yellow		Read/write operation successful
LED blue		Transmission mode
Electrical specifications		
Power consumption	P_0	≤ 10 W
Supply		from the IDENTControl
Standard conformity		
Electromagnetic compatibility		EN 301489-1 EN 301489-3
Degree of protection		EN 60529
Safety		EN 62368-1
RFID		ISO/IEC 18000-63
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		Australia: ACMA CERT3989 Brazil: ANATEL 2940-16-6150 China: CMIIT ID 2015DJ3019
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		connector M12 x 1
Material		
Housing		PA 6
Base		diecast aluminum
Mass		approx. 3000 g

Connection





\+
A
\-
B
do not connect
Shield

Accessories

	**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 Compactwith 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

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Accessories

	**IC-KP2-2HB21-2V1D**	Control interface unit IDENTControl Compact with EtherCAT interface
	**IUC76-34-M-FR2**	Data carrier
	**IUC76-50-FR2**	Data carrier
	**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
	**IUZ-MH13**	Mounting bracket for wall mounting
	**IUZ-MH15**	Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm
	**V1-G-2M-PUR-ABG-V1-W**	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	**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

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Function

This product is a wireless device and may be operated only in the country for which a transmission license exists. Information regarding transmission licenses can be found on the datasheet for the product. 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.

Safety Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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