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Read/write station

IUT-F190-B40-2V1D-FR2-02

- 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
- LED status indicator for bus communication and read/write station
- Network loop through by means of integrated 2 port switch
- Flexible UHF read/write station with medium detection range
- Multi-tag reading increases productivity

UHF read/write station, USA and Canada





Function

The compact read/write station IUT-F190-B40-2VD1-* operates in the UHF frequency range and is optimized for industrial use over medium distances. The device writes and reads passive transponders according to EPC Gen2 (ISO/IEC 18000-63). The read/write station complies with the respective local radio regulations.

Extensive possibilities for data filtering are supported. The read/write station has an ethernet interface and is connected via an M12 connector. The user can monitor the status of the read/write station using the integrated LEDs

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The read/write station has a typical detection range of about 2 m, which is determined by the transponder used and can be adjusted by setting the transmission power. Further influencing factors are the mounting or installation for the specific application and the surrounding materials, especially metal. The separately specified read and write distances for the respective transponders have been determined in a test laboratory under ideal conditions. For the actual read and write distances under real conditions, the combination read/write station and transponder must be tested in the desired application.

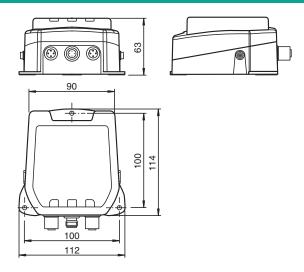
Application

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

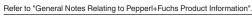
Dimensions



Technical Data

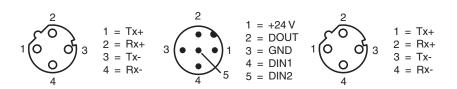
General specifications

Technical Data		
Operating frequency		902 928 MHz: USA, Canada
		Transmission licenses for other countries on request
Emitted power		3 1250 mW EIRP adjustable
Operating distance		typ. 2 m
UL File Number		E468231
Functional safety related parameters		110 a
MTTF _d Indicators/operating means		110 a
LED green		Power on
LED yellow		Read/write operation successful
LED blue		Transmission mode
LED Link/Traffic		green: network connection yellow: flashes in rhythm with the transmitted data
Electrical specifications		,
Rated operating voltage	U _e	20 30 V DC , PELV
Ripple		≤ 10 % at 30 V DC
Current consumption		≤ 500 mA
Power consumption	P ₀	≤ 10 W
Surge protection		category 2
Interface 1		
Physical		Ethernet
Protocol		HTTP EtherNet/IP PROFINET IO
Transfer rate		10 MBit/s or 100 MBit/s
Interface 2		
Physical		Ethernet
Protocol		HTTP EtherNet/IP PROFINET IO
Transfer rate		10 MBit/s or 100 MBit/s
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		
FCC approval		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. Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
IC approval		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. 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.
Radio approval		USA: Contains FCC IREIURF190 Canada: Contains 7037A-IURF190
Ambient conditions		
Classification		Environmental condition A (controlled environment)
Ambient temperature		-20 70 °C (-4 158 °F) (Operation with nontransmission periods, adjustable) -20 50 °C (-4 122 °F) (Continuous transmission mode)



Technical Data	
Storage temperature	-40 85 °C (-40 185 °F)
Pollution degree	2
Mechanical specifications	
Housing length	114 mm
Housing width	112 mm
Housing height	63 mm
Degree of protection	IP67
Connection	Power supply: M12 connector Protective earth: M4 earthing screw Ethernet: M12 plug connection
Material	
Housing	PA 6.6
Base	diecast aluminum
Mass	820 g

Connection Assignment



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.

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
1000円	IUC77-25L100-GBL 1000pcs	Data carrier
11111	IUC77-28L90-M-FR2 25pcs	Data carrier
•	IUC77-34-M-FR2 10pcs	Data carrier
	IUC77-50-FR2 10pcs	Data carrier
	IUZ-MH13	Mounting bracket for wall mounting

Accessories IUZ-MH15 Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm V15-G-2M-PUR-ABG Female cordset single-ended M12 straight A-coded, 5-pin, PUR cable grey, shielded V15-G-5M-PUR-ABG Female cordset single-ended M12 straight A-coded, 5-pin, PUR cable grey, shielded V15-G-10M-PUR-ABG Female cordset single-ended M12 straight A-coded, 5-pin, PUR cable grey, shielded V1SD-G-GN2M-PUR-E1S- Ethernet bus cable M12 plug straight D-coded to RJ45 Ethernet-coded, 4-pin, PUR cable green, Cat5e, V45-G shielded, drag chain suitable V1SD-G-GN5M-PUR-E1S- Ethernet bus cable M12 plug straight D-coded to RJ45 Ethernet-coded, 4-pin, PUR cable green, Cat5e, V45-G shielded, drag chain suitable V1SD-G-GN10M-PUR-Ethernet bus cable M12 plug straight D-coded to RJ45 Ethernet-coded, 4-pin, PUR cable green, Cat5e, E1S-V45-G shielded, drag chain suitable