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Read/write station

IUT-F191-R4-V1-FR2-03

- Flexible UHF read/write station with short detection range
- 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
- Connection via integrated RS-485 interface

UHF read/write station, China

Function

The read/write station 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 station is compliant with the relevant transmission regulations.

The read/write station can be used in China.

Wide range of options supported for filtering data. The read/write station has an RS-485 interface and is connected via an M12 connector. The user can monitor the status of the read/write station using the integrated LEDs.

The read/write station has a typical detection range of around 1 meter; this range is determined by the tag used and can be adjusted by

The read/write station 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 station and tag must be tested in the desired application.

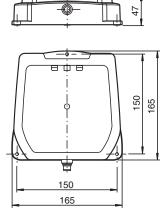
Application

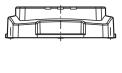
This product is a wireless device and may be operated only in the country for which a transmission license exists. If a product is released to a customer in a country for which there is no transmission license, the product may be operated only in the country for which a transmission license exists.

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.

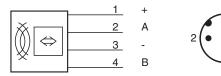
Dimensions





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		
Rated operating voltage	U_e	10 30 V DC
Current consumption		≤ 190 mA
Power consumption	P_0	≤ 1.9 W
Surge protection		category 2
Interface		
Physical		RS-485 point-to-point connection
Protocol		ASCII
Transfer rate		38400 Bit/s
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



Parameterization

Interface transfer rate:	38400 Bit/s
Port settings:	8 data bits, no parity, 1 stop bit, no handshake
Transpondertype:	80

Accessories 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 Data carrier 25pcs IUC77-25L100-GBL Data carrier 1000pcs 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