

RFID read/write device hazardous area

IUH-F190-V1-FR2-07-20M-Ex

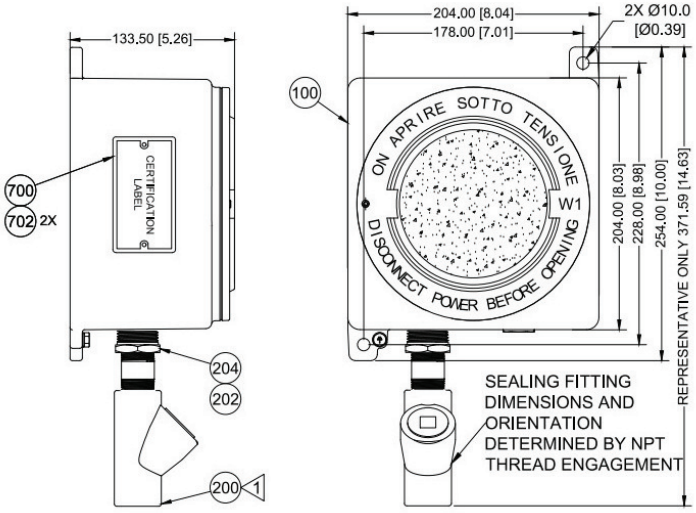
- Read/Write Head for Hazardous Areas
- Flameproof enclosure
- IECEx approval
- For connection to IDENT*Control* evaluation unit
- Multi-tag reading increases productivity
- Ready-made PLC function blocks designed for quick and easy integration

UHF RFID read/write device for IDENTControl, Brazil, hazardous areas

Function

The read/write head operates in the UHF frequency range and is optimized for use in industrial applications involving medium 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 Brazil. 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 two meters; 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. 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

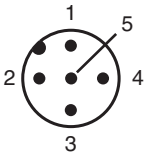
General specifications		
Operating frequency		915 … 928 MHz: Brazil Transmission licenses for other countries on request
Emitted power		3 ... 1250 mW ERP adjustable

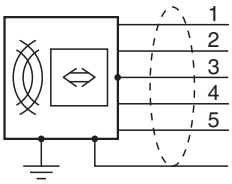
Release date: 2025-11-18 Date of issue: 2025-11-18 Filename: 70194698_eng.pdf

Technical Data

Indicators/operating means		
LED green		Power on
LED yellow		Read/write operation successful
LED blue		Transmission mode
Electrical specifications		
Current consumption		≤ 450 mA
Power consumption	P_0	≤ 9 W
Supply		from the IDENTControl
Surge protection		Category Z
Standard conformity		
Degree of protection		EN 60529
RFID		ISO/IEC 18000-63
Approvals and certificates		
IECEx approval		IECEx INE 14.0042X
ATEX approval		INERIS 14ATEX0035X
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F) (Operation with nontransmission periods, adjustable) -20 ... 50 °C (-4 ... 122 °F) (Continuous transmission mode)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Degree of protection		IP66
Connection		20 m cable with flying leads
Material		
Housing		cast aluminum
Installation		
Distance between two heads		Multiplex on: ≥ 155 mm Multiplex off: ≥ 350 mm
Mass		approx. 7300 g
Dimensions		
Height		133.5 mm
Width		204 mm
Length		254 mm

Connection





\+
A
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B
do not connect
Shield

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