# RFID read/write device hazardous area

# IUH-F190-V1-FR1-01-Ex GUBW1

- Read/Write Head for Hazardous Areas
- Flameproof enclosure
- ATEX-approval for zone 1 and zone 21
- For connection to IDENT*Control* control interface
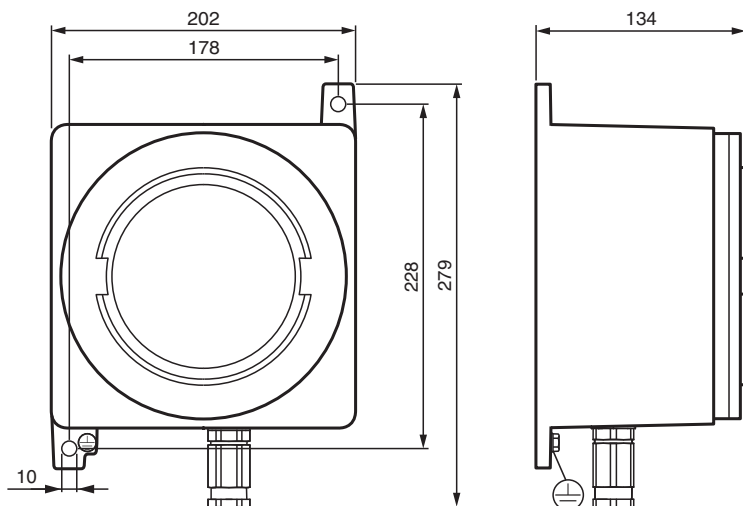- Multi-tag reading increases productivity

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



## 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

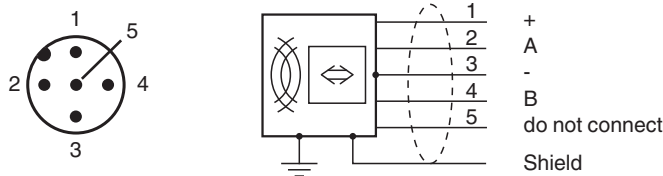| General specifications | |
|---|---|
| Operating frequency | 865 … 868 MHz: EU, Turkey<br>Transmission licenses for other countries on request |
| Emitted power | 3 ... 1000 mW ERP adjustable |
| Operating distance | typ. 2 m |
| **Indicators/operating means** | |
| LED green | Power on |
| LED yellow | Read/write operation successful |
| LED blue | Transmission mode |

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

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## Technical Data

**Electrical specifications**

| | | |
|---|---|---|
| Power consumption | $P_0$ | ≤ 9 W |
| Supply | | from the IDENTControl |

**Directive conformity**

| | |
|---|---|
| Radio equipment | |
| Directive 2014/53/EU | EN 301489-1<br>EN 301489-3<br>EN 302208<br>EN 62368-1<br>EN 62311<br>EN 50364 |
| RoHS | |
| Directive 2011/65/EU (RoHS) | IEC/EN 63000 |

**Standard conformity**

| | |
|---|---|
| Degree of protection | EN 60529 |
| RFID | ISO/IEC 18000-63 |

**Approvals and certificates**

| | |
|---|---|
| IECEx approval | IECEx INE 14.0042X |
| ATEX approval | INERIS 14 ATEX 0035X<br>Device type: GUBW1.D.CP-IUH-F190-V1-FR1-01<br>Device number: 70117534 |
| Marking | ⟨Ex⟩ II 2 GD<br>Ex db IIC T6 Gb<br>Ex tb IIIC T85°C Db |

**Ambient conditions**

| | |
|---|---|
| Ambient temperature | -20 ... 60 °C (-4 ... 140 °F) (Operation with nontransmission periods, adjustable)<br>-20 ... 50 °C (-4 ... 122 °F) (Continuous transmission mode) |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |

**Mechanical specifications**

| | |
|---|---|
| Housing length | 279 mm |
| Housing width | 202 mm |
| Housing height | 134 mm |
| Degree of protection | IP66 |
| Connection | Terminal block with screw connection<br>Max. clamping range 0.13 mm² ... 2.5 mm² M20 barrier gland for unarmored cables, clamping range 3 mm ... 8.5 mm |
| Material | |
| Housing | Seawater-resistant aluminum |
| Installation | |
| Distance between two heads | Multiplex on: ≥ 155 mm<br>Multiplex off: ≥ 350 mm |
| Mass | approx. 7300 g |

## Connection



| Pin | Signal |
|---|---|
| 1 | + |
| 2 | A |
| 3 | - |
| 4 | B |
| 5 | 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 |

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

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## Accessories

| | | |
|---|---|---|
| | **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 |
| | **IC-KP2-2HB21-2V1D** | Control interface unit IDENTControl Compact with EtherCAT interface |
| | **IUC76-F157-T17-M-FR1** | Data carrier for standard applications |
| | **IUC76-F157-T18-M-FR1** | Data carrier for paint shop applications |
| | **IUC77-25L100-GBL 1000pcs** | Data carrier |
| | **IUC77-28L90-M-FR1 25pcs** | Data carrier |
| | **IUC77-34-M-FR1 10pcs** | Data carrier |
| | **IUC77-50-FR1 10pcs** | Data carrier |

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