HF Mid Range Reader
ID ISC.MR102

FEATURES

- Compact Multitag Reader for various applications
- Anticollision function
- Numerous communication interfaces: Ethernet (TCP/IP), USB, RS232, RS485
- Available as module or housing version
- 3 different reader modes
- Compatible with the previous version ID ISC.MR101
- Ideal for retail, industry, logistics and libraries
**TECHNICAL DATA**

- **Dimensions (W x H x D)**: 85 mm x 145 mm x 31 mm (3.3 inch x 5.7 inch x 1.2 inch)
- **Weight**: 200 g
- **Housing**: Plastic ABS
- **Enclosure rating**: IP 30
- **Colour**: similar to RAL 9018 (Papyrus white)
- **Operating frequency**: 13.56 MHz
- **Transmitting power**: 1.2 W ± 1 dB
- **Power supply**:
  - ID ISC.MR102-A/-B/-USB: 12…24 V DC
  - ID ISC.MR102-PoE: 12…24 V DC or PoE
- **Power consumption max.**: 6 W
- **Antenna connector**: 1 x SMA connector (50 Ω)
- **Supply voltage at antenna output**: 7.5 V DC (max. 5 mA)

**Interfaces**

- ID ISC.MR102-A: RS232
- ID ISC.MR102-B: RS485
- ID ISC.MR102-PoE: Ethernet (TCP/IP)
- ID ISC.MR102-USB: USB 2.0

**Indicators, optical**

- 1 LED (multicolour)

**Supported transponders**

- ISO 15693 (ISO 18000-3 MODE 1)*

**Reader modes**

- ISO Host Mode, Scan Mode, Notification Mode

**Others**

- Antenna shortcut detection
- Temperature control
- Full support of the external multiplexer ID ISC.ANT.MUX

**Temperature range**

- **Operation**: –25 °C up to 55 °C
  - (-13 °F up to 131 °F)
- **Storage**: –25 °C up to 85 °C
  - (-13 °F up to 185 °F)
- **Relative humidity**: 5…95 % (non-condensing)

* e.g. EM HF ISO Chips, Fujitsu HF ISO Chips, IDS Sensor Chips, Infineon my-4, KSW Sensor Chips, NXP I-Code, STM ISO Chips, TI Tag-it

**STANDARD CONFORMITY**

<table>
<thead>
<tr>
<th>Country</th>
<th>Standard</th>
</tr>
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<tbody>
<tr>
<td>Europe</td>
<td>EN 300 330</td>
</tr>
<tr>
<td>USA</td>
<td>FCC 47 CFR Part 15</td>
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<td>IC RSS-GEN, RSS-210</td>
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<td>EMC</td>
<td>EN 301 489</td>
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<td>EN 60950</td>
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<td>Low voltage</td>
<td>EN 50364</td>
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<tr>
<td>Human exposure</td>
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<tr>
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<tr>
<td>Shock resistance</td>
<td>EN 60068-2-27</td>
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Stand of information: February 2011.

**DESCRIPTION**

The HF Mid Range Reader ID ISC.MR102 identifies transponders according to ISO 15693 with an operating frequency of 13,56 MHz. The reader is suitable for applications with middle read ranges. Depending on the used antenna the ID ISC.MR102 has a read range up to 40 cm.

Due to its numerous communication interfaces the HF Mid Range Reader ID ISC.MR102 is suitable to be used in fields of applications like library, retail, logistics and industry and is easy to integrate in existing systems.

With its anticollision function the ID ISC.MR102 is able to read up to 30 transponders simultaneous. A switchable DC voltage at the antenna output can supply a LED inside a connected antenna.

Depending on the interface the ID ISC.MR102 is available as module or housing version. For the housing version the electronic is mounted inside a solid plastic housing which could be used in industrial environments.

**ORDER DESCRIPTIONS**

| ID ISC.MR102-A | Housing version; RS232 asynchr. |
| ID ISC.MRM102-A | Module version; RS232 asynchr. |
| ID ISC.MR102-B | Housing version; RS485 asynchr. |
| ID ISC.MR102-PoE | Housing version; Ethernet (PoE) |
| ID ISC.MR102-USB | Housing version; USB 2.0 |
| ID ISC.MRM102-USB | Module version; USB 2.0 |