

metraTec® DMI15 HF RFID-Reader

The DMI15 is an HF RFID reader designed specifically for the requirements of the Internet of Things. Based on the ISO 15693 standard, the reader has been designed to make integration into existing industrial environments as easy as possible.

The integrated antenna enables reading ranges of up to 80 mm. Due to its compact dimensions and low heat generation, the reader can be installed directly in machines and systems. For this purpose, the reader only has to be connected via Power over Ethernet (PoE). The DMI15 is controlled via an ASCII protocol and is compatible with metraTec's IoT Engine middleware. In addition, type 5 NFC chips can be read and written with the reader.

The DMI15 HF RFID reader has two optically isolated 24V DC inputs and four 24V DC outputs. To facilitate integration into machines, a 24V supply is available on two contacts on the IO Connector. Thus, light barriers or signal columns can be controlled directly if required.

A free .NET DLL and a Java SDK are available for integration into Windows-based IT systems. A demo software with a comprehensive range of functions is also available to test all the capabilities of the device.

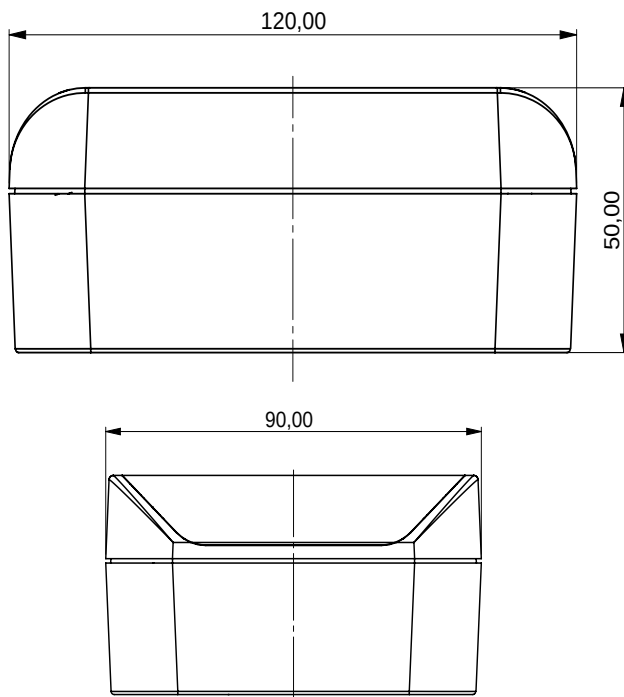
Applications

- Use in machines without control by a PLC
- RFID applications with direct connection to ERP systems
- RFID applications with high performance requirements



Technical specification

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|---------------------------|--|
| Functional principle | HF RFID Industry Reader |
| Operating frequency | 13.56 MHz (HF RFID) / 250 mW RF |
| Protocol | ISO 15693 incl. all special functions |
| Power supply | 24V DC, PoE Supply 2,5 W typ. |
| Communication | Communication via Ethernet to the Host system |
| Inputs / Outputs | optically isolated 24V DC inputs (2x), 24V DC Output (4x) |
| Antenna connection | internal antenna |
| Reading range | up to 80 mm |
| Temperature range | 0°C to +70°C |
| Housing, protection class | ASA+PC (UL 94 V-0), IP40 |
| Dimensions | 120 x 90 x 50 mm |
| Conformity | CE |



At a glance

- Fast RFID operations possible
- PoE Class 0
- Industrial IOs
- ISO 15693 compatible

About metraTec

metraTec develops, produces and distributes radio electronics for the fields of "identification", "localization", "communication" and "wireless power transmission" and thus serves a variety of markets with standard products as well as special solutions. Customers include OEM customers, system integrators and research institutions worldwide.

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