metraTec® QuasarMX HF RFID Reader

The QuasarMX is an HF RFID reader/writer for demanding industrial applications, where high reading reliability, speed and extensive special tag features are needed.

Highlights include a reading rate of up to 100 tag-IDs/sec and reading and writing data on tags without needing to address them individually. This allows applications directly at conveyor belts, in production machinery and in electric control cabinets.

To facilitate its integration into machines and to allow ease of control via PLCs the device offers optically isolated 24 V DC Inputs and Outputs. The communication to the host system is done via USB or an optional Ethernet port. Other interfaces, such as WiFi, RS485 or even Fieldbus technology are available on request.

Integration into IT systems based on Windows is supported by a .NET DLL as well as a Java SDK which come with the device free of charge. A demo software with a comprehensive set of features allows easy testing of the device. An example for the controlling the reader using CodeSys/IEC 61-131 can also be supplied.
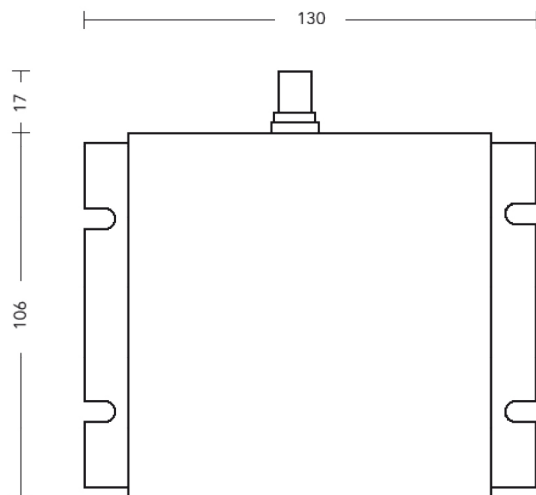
Applications

- Use in machines with control via a PLC
- Box identification with a direct connection to an ERP system
- RFID applications with high performance requirements

Technical Specification

Operating Principle	HF RFID Reader
Operating Frequency	13.56 MHz (HF RFID)
Protocol	ISO 15693 incl. all special features
Operating Voltage	24 V DC
Communication	USB, Ethernet (optional), others on request (e.g. ZigBee)
Inputs/Outputs	optically isolated 24 V Inputs (2x), 24 V Outputs (4x), 24 V Power Out (1x)
Antenna Connector	BNC, female
Read Range	up to 150 mm (with matching antenna)
Operating Temperature	-40°C to +85°C
Housing, IP Class	Aluminium, IP40
Dimensions	130 x 106 x 45 mm
Conformity	CE, e.g. ETSI 300 330

At a Glance

- High Read-Rate and Anti-Collision Feature
- Industrial Inputs/Outputs
- Transparent Mode for custom tag commands, e.g. temp-sensors

About metraTec

metraTec develops, manufactures and sells RF hardware for the product segments „Identification", „Localization", "Communication" and „Wireless Power". It serves a variety of industries, both with standard products as well as custom solutions. Our customers are system integrators, OEM customers as well as research institutes world wide.

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