metraTec® PulsarMX UHF RFID Reader

The PulsarMX is a UHF RFID Reader for applications with medium read range between 2 and 5 m and up to 100 tags at the same time in the field (anti collision). Typical applications include container tracking, reading data from sensor tags or as a scanning station on a conveyor belt. With its low cost, it open up new possibilities for RFID which were not economical before.

With its compact dimensions of only 130 x 106 x 55 mm and the low heat development the reader can be easily integrated into electrical cabinets and machines. The communication to the host system is done via USB or the integrated Ethernet interface. Other interfaces, such as WiFi, RS485 or even Fieldbus technology are available on request. The optically isolated inputs and 24V DC outputs allow connecting the device directly to a PLC and light barriers and LEDs.

Integration into IT systems based on Windows is supported by a .NET DLL and a Java SDK which can be downloaded from our website for free. A demo software is also available with a comprehensive set of features that allows easy testing of the device.
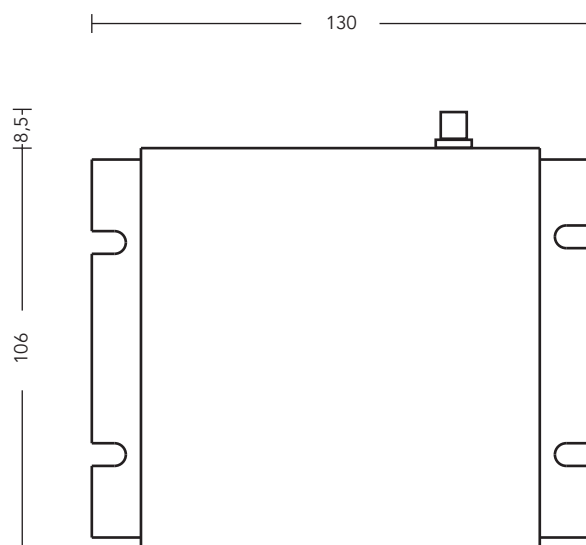
Applications

- Use at a conveyor belt or sorter
- Container Identification with direct connection to an ERP system
- Cool-Chain Monitoring with UHF sensor tags
- Identification of vehicles and loading equipment

Technical Specification

Operating Principle	UHF RFID Mid Range Reader
Operating Frequency	868 MHz (ETSI UHF RFID)
Protocol	EPC Class 1 Gen 2
Operating Voltage	24 V DC
Power Consumption	up to 400 mA
Interfaces	USB, Ethernet, other on request
Inputs/Outputs	optically isolated 24 V DC Inputs (2x), 24 V DC Outputs (4x), 24 V DC Out (1x)
Antenna Connector	SMA, female
Read Range	up to 5 m (depending on antenna & tag)
RF Power	27 dBm (500 mW)
Operating Temperature	-20°C - +75°C
Housing, IP	Aluminium, IP40 (higher on request)
Dimensions	130 x 106 x 55 mm
Conformity	CE, e.g. EN 60950-1, ETSI 302 208

At a Glance

• Compact Form Factor

• Industrial Inputs/Outputs

• Best Value

About metraTec

metraTec develops, manufactures and sells 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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