

DATASHEET

Wireless Battery-Powered Proximity Reed Switch Sensor

**SKU:** IMAG163010-REED-ROT**Category:** Sensors

Description

Industrial Wireless Battery-Powered Proximity Reed Switch Sensor (Magnetic)

The iQunet Proximity (Reed) Switch Sensor is a small battery-powered device that collects continuously data and transmits wireless the gathered data on free adjustable time intervals.

The magnetically actuated internal Reed switch monitors the presence of machine components. The normally open switch is closed in the presence of a magnet. The sensor is especially designed to monitor the **rotation speed (RPM)** of rotating equipment wireless on adjustable intervals. The sensor collects simultaneously **temperature** data. The sensor is powered by **2 standard CR2032 coin cells** (included) which assures function for several years in standard operation mode.

The sensor makes a network direct to the central Base Station node or via the optional Repeater. Sensor data is visualized in the iQunet **Sensor Dashboard** on the iQunet Data Server, offering temperature graphs, RPM readings, counter reading, etc.

Used in: monitoring wireless rotation speed of machinery, open or close status of e.g. doors, guards, etc., monitoring of machine cycles, ...



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Technical specifications

- **Physical:**
 - **Dimensions (mm):** 57 x 47 x 14
 - **Weight:** 35g
 - **Case material:** thermoplastic
 - **Sealing:** IP65 (IP68 with upgrade set)
- **Installation:** M3 screw (epoxy adhesive for permanent mount)
- **Operating temperature:** -20°C to +70°C
- **Recommended storage temperature:** +30°C maximum
- **Certifications:**
 - CE
 - FCC
 - KC
- **Wireless communications range:** up to 50 m typically in plant (actual range depends on specific site topology and device placement)
- **Power supply:** 2 x 3V (replaceable CR2032 battery)
- **Measurements:**
 - **Count range:** 0 to 4.250.000.000 (2³²) pulses
 - **RPM range:** 0 to 1500 rpm
- **Temperature sensor on board:** yes
- **Start data acquisition:**
 - Manual trigger (REC button in Sensor Dashboard)
 - Automatic measurements (programmable time interval)
 - Conditional automatic measurements (programmable threshold level)
- **Communication protocols:**
 - Subscribe to sensor parameters and data with OPC UA
 - Control sensor settings and start measurements using GraphQL mutations
 - Read out sensor parameters and data using GraphQL queries
- **Data storage:** on iQunet Data Server
- **Compliance:**
 - RoHS: 2011/65/EU and 2015/863
 - EMC: EN 301 489-1 / EN 301 489-3
 - SPECTRUM: EN 300 220-2
868.8 Mhz, Max. EIRP < 10dBm (<10mW)