**TELID®282.i**

RFID inclination sensor transponder 13.56MHz
- passive acceleration sensor device
- 3D inclination measurement based on earth acceleration
- mid size hard TAG, mountable on metal or nonmetal objects
- contactless data communication based on ISO14443

RFID Sensor TELID® devices are an integral part of microsensys iID® system solution. These devices are very useful for wireless sensor applications in industrial solutions, especially in maintenance processes and in building industry. TELIDs are operating optimal with microsensys standard RFID reader.

**RFID Technology:** RFID system TELID®200

**Chip Type:** iID-L

**Carrier Frequency:** 13.56 MHz

**Communication Rate:** 106 kbps

**Communication Distance:** 0 ... 20 mm depending on reader antenna and environmental conditions

**Data Memory:** EEPROM read write type, endurance >100,000 cycles, data retention > 10 years

**Static Memory:** parameters, calibration data, manufacturer OTP

**Free Memory:** 128 bit see versions

**Acceleration Sensor:** MEMS sensor, 3D acceleration (x, y, z-axis)

**Measure Range:** +2.0 g ... -2.0 g

**Resolution:** 12 bit

**Application:** inclination measurement of vertical and horizontal areas preferably for inclination changing measurements

**Measure Range:** +60° ... -60° (+0.87 g ... -0.87 g)

**Resolution:** theoretical 0.5° x-y axis sensor

**Temperature Sensor:** semiconductor sensor

**Working Temperature:** -40°C ... +85°C

**Resolution:** 0.5 K not calibrated

**Operating Mode:** PASSIVE SENSOR

**Basic Functions:** on line measurement

**Parameters:** programming of sensor parameters and data memory commands zero reference at installation, calibration data (optional)

**Battery:** no battery

**Working Temperature:** -25°C ... +85°C

**Storage Temperature:** -40°C ... +125°C maximum range

**Dimensions:** 43 x 27 mm², thickness max. 4.0 mm

**Packaging:** front side EP (black), back side PA 6.6 GF30

**Marking:** laser printed product type on top, optional unique ID-No

**Mounting Instruction:** adhesive on metal or nonmetal objects

**Appropriate RFID Reader:** PEN reader with RS232TTL, USB or Bluetooth

HEAD reader with RS232TTL, P-CAN or USB for industrial application

POCKETwork with USB or Bluetooth

**Software:** TELID282.i application software for Windows PC, consist of TELID282.i initialization app, TELID282.i evaluation app

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**Type:** 13.282.159.30* 13.282.559.30*) not for new projects

**Package:** Q43special Q43special

**Memory Capacity:** 128 128 bit

**Special Features:** calibrated

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