## PRODUCT DATASHEET

TELID® RFID Sensors

## 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.



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iID®3000 based on ISO 14443B

closed coupling HF sensor solution

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this data sheet is subject to change contact microsensys for latest information

TELID282i-04

theoretical 1 mg

optional

RFID Technology:

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:** 

Static Memory: Free Memory:

**EEPROM** read write type endurance >100.000 cycles, data retention > 10 years

parameters, calibration data, manufacturer OTP

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

inclination measurement of vertical and horizontal areas

Application:

preferably for inclination changing measurements

RFID system TELID<sup>®</sup>200

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 **Measure Modes:** ON LINE MEASUREMENT

**Basic Functions:** programming of sensor parameters and data memory commands Parameters:

zero reference at installation, calibration data (optional)

front side EP (black), back side PA 6.6 GF30

**Battery:** no battery

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

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

**Dimensions:** 43 x 27 mm<sup>2</sup>, thickness max. 4.0 mm

Packaging:

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 with USB or Bluetooth **POCKETwork**

Software: TELID282.i application software for Windows PC

consist of TELID282.i initialization app, TELID282.i evaluation app

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Package: Q43special Q43special **Memory Capacity:** 128 128 bit Special Features: calibrated