## **PRODUCT DATASHEET**

TELID<sup>®</sup> RFID Sensors

## TELID<sup>®</sup> 382.3D formerly 322.3D

## RFID acceleration logger, event or time triggered

- semi-passive RFID sensor logger device, high memory
- battery powered, long life time
- contactless data communication ISO 14443, passive
- acceleration measurement range 3D, 0...+/-8g, 200Hz
- non flexible hard TAG, package Q54S

RFID Sensor TELID<sup>®</sup> devices are an integral part of *microsensys* iID<sup>®</sup> system solution. These devices are very useful for wireless sensor applications in industry, especially for quality check in automotive industry, for vibration measurements in maintenance processes and in transport and logistics. TELIDs are operating optimal with microsensys standard RFID reader.



contact microsensys for latest information TELID382.3D-005.docx **RFID Technology:** RFID system TELID®300, based on ISO 14443B (18000-3) Chip Type: ilD-L closed coupling HF sensor solution **Carrier Frequency:** 13.56 MHz Communication Rate:106 kbps **Communication Distance:** depending on reader antenna and environmental conditions 0 ... 2 cm Data Memory: EEPROM read write type endurance >100.000 cycles, data retention > 10 years Data Memory: approx. 1 Mbit **Recording Capacity:** SIMPLE MODE: approx. 6000 events ADVANCED MODE: max. 123 events, including 3D wave recording, 170 samples per wave and axis Acceleration Sensor: MEMS sensor, 3D (x, y, z-axis) Range: programmable range: ±2 g, ±4 g or ±8 g 0 ... ±8 g Limit Range: 30 mg ... max. programmable in steps of 1 mg Frequency Range: 0 ... 200 Hz programmable bandwidth Sample Rate: 12.5 Hz, 25 Hz, 50 Hz, 100 Hz, 200, 400 Hz programmable Sensitivity: 0.5 ma/√Hz theoretical **Event Triggered Recording:** date and time in SIMPLE / additional 3D wave in ADVANCED MODE Event Types: LIMIT or FREE FALL detection programmable **Repetition Time:** approx. 10ms, 1s, 10s or 60s (1 s preferred setting) programmable **Time Triggered Recording:** date, time and 3D wave interval between two events, programmable **Record Interval:** 1 min ... 1439 min quartz RTC Clock: time synchronization while device programming Accuracy: +/-20ppm @25°C resolution 1 s **Operating Mode:** ACTIVE or SLEEP optional: password protected ACTIVE mode Measure Modes: STOP FULL **Recording Mode:** SIMPLE or ADVANCED or TIME TRIGGERED **Basic Functions:** programming of sensor parameters, read parameters, read data memory, get current acceleration, read UID **Parameters:** start time, sample rate, measurement range, bandwidth, shock limit **Primary Battery:** LiMnO<sub>2</sub>, 68 mAh Life Time: depending on using conditions up to 2 years -25°C ... +80°C Working Temperature: Storage Temperature: recommended 25°C -30°C ... +85°C **Dimensions:** 54 x 40 mm<sup>2</sup>, thickness max. 4.5 mm case PA66 GF6 blue, encapsulation epoxy black Packaging: Q54S laser printed product type on top, optional unique ID-No Marking: **Mounting Instruction:** glue, power strip or plastic screws for data communication don't use on metal **ID PEN or POCKET reader** with RS232TTL or USB or Bluetooth, Appropriate RFID Reader: iID DESKTOP reader with RS232TTL or USB with RS232TTL, RS485 or USB for industrial application M30-HEAD reader TELID programming and reading software for Windows PC Software: **Product Code:** 14.382.709.10 14.382.709.00\* 14.322.719.01 \*) in development Type : TELID382.3D LT TELID382.3D TELID382.3D TT Event Types / Mode: only LIMIT all only TIME TRIGGERED Wave Recording: yes / no\* yes yes

FAX

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