**RFID analog I/O transponder**
- passive ADC I/O transponder for contactless sensors
- contact pads for analog input or output on back side
- non flexible hard TAG, package D14
- contactless data communication ISO 14443

RFID Sensor TELID® devices are an integral part of microsensys iID® system solution. These devices are very useful for wireless sensors applications in industrial solutions. TELIDs are operating optimal with microsensys standard RFID reader.

### RFID Technology
- **TELID®200**
- **iID®3000** based on ISO 14443B
- closed coupling HF sensor solution

### 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
- 128bit higher memory on inquiry

### ADC
- low power, 16 bit analog to digital converter with internal reference

#### Working Range
- -2.048 V ... +2.048 V analog input voltage

#### Resolution
- 16 bit theoretical 62.5 µV

#### Input Impedance
- 6 MO typical

#### Sample Rate
- 8 sps ADC supports up to 860 sps

### Voltage Source
- approx. 2.2 V stabilized

#### Source Impedance
- <100 Ω for full bridge device
- 10 kΩ for 2 point and 4 point resistance measurement devices

### Operating Mode
- **PASSIVE SENSOR**

### Measure Modes
- **ON LINE MEASUREMENT**

### Basic Functions
- programming of sensor parameters and data memory commands

### Parameters
- calibration data (optional)

### Battery
- no battery

### Working Temperature
- -25°C ... +85°C

### Storage Temperature
- -40°C ... +150°C maximum range

### Dimensions
- D 14 mm, max. TH 2.0 mm (half lens housing)

#### Packaging
- epoxy (black) on glass fiber enforced substrate

#### Contacts and Forms
- gold pads on back side, half lens with customized cable, lens form

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

#### Mounting Instruction
- no using on metal

### Appropriate RFID Reader
- M30-HEAD reader with RS232TTL or USB
- PEN reader with RS232TTL, USB or Bluetooth
- POCKETWork with Bluetooth
- UNI13 module with Bluetooth

### Software
- iID driver engine, iID DEMOsoft,
- TELID application software for Windows PC and mobile devices on inquiry

### Type
- 12.251.109.40
- 12.251.109.41
- 12.251.109.10
- 12.251.109.20
- 12.251.109.30

### PIN Assignment 1
- OPEN
- 2.2 V, 10kΩ

### PIN Assignment 2 & 3
- OPEN
- 2.2 V

### PIN Assignment 4
- OPEN
- GND

*) on inquiry

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