PRODUCT DATASHEET

TELID[®] RFID Sensors

TELID[®] 251

RFID analog I/O transponder

- passive ADC 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.



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RFID Technology: Chip Type: Carrier Frequency: Communication Rate:	RFID sys	tem TELID [®] 200 iID-L 13.56 MHz 106 kbps		ilD® closed	3000 based on coupling HF se	ISO 14443B nsor solution	
Communication Distan	ice:	0 20 mm	depending on	reader antenna a	ind environment	tal conditions	
Data Memory: Static Memory:	EEPROM	read v parameters, cali	rite type endurance >100.000 cycles, data retention > 10 years vration data, manufacturer OTP				
Free Memory:		128bit		higher memory on inquiry			
ADC: Working Range: Resolution: Input Impedance: Sample Rate:	low powe	r, 16 bit analog to -2.048 V +2.0 16 bit 6 MΩ 8 sps	digital converter v)48 V	vith internal refere	ence analog theore ADC supports u	input voltage etical 62.5 μV typical up to 860 sps	
Voltage Source: Source Impedance:	approx. 2.2 V $<100 \Omega$ for $10 k\Omega$ for 2 point and 4 point resistance mean				for full t tance measurer	stabilized oridge device ment devices	
Operating Mode: Measure Modes: Basic Functions: Parameters:	PASSIVE ON LINE	PASSIVE SENSOR ON LINE MEASUREMENT programming of sensor parameters and data memory commands calibration data (optional)					
Battery:	no battery	/					
Working Temperature: Storage Temperature:	-25°C ·	⊦85°C -40°C +150°C	;	maximum range			
Dimensions: Packaging: Contacts and Forms: Marking: Mounting Instruction:	D 14 mm Type 12.2 Type 12.2	, max. TH 2.0 mn 251.109 251.219	n (half lens housin e laser prin	(half lens housing) epoxy (black) on glass fiber enforced substrate gold pads on back side, half lens with customized cable, lens form laser printed product type on top, optional unique ID-No no using on metal			
Appropriate RFID Reader:	M30-HEA PEN read POCKET UNI13 mo	D reader ler work odule	with RS232TTL or USB with RS232TTL, USB or Bluetooth with Bluetooth OEM product				
Software:		iID driver engine, iID DEMOsoft, TELID application software for Windows PC and mobile devices on inquiry					
Type : Functionality: PIN Assignment 1: PIN Assignment 2,3: PIN Assignment 4:	12.251.109.40 ADC-ASYM OPEN ADC IN,GND GND	12.251.109.41* ADC-DIFF OPEN ADC IN,IN OPEN	12.251.109.10* RESIST-2P OPEN ADC HI,GND OPEN	12.251.109.20 RESIST-4P 2.2V, 10kΩ ADC IN,IN GND	12.251.109.30 FULL BRIDGI 2.2V ADC IN,IN GND)* E *) on inquiry	

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