

PRODUCT DATASHEET

iID[®] RFID Transponder



D14-TAGspecial ATEX

13.56 MHz transponder for industrial applications in harsh environmental conditions:

- part and equipment tagging
- high memory and sensors available
- TAG on metal possible
- certified for ATEX zone 1 and zone 2

This transponder package is available with different chip types. They are integral part of microsensus iID system solution. Lens form transponder devices are very useful for product identification in industry and administration especially for tagging of metal objects.

microsensus offers an attractive component platform for closed coupling RFID solutions.



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Carrier Frequency:	13.56 MHz
Technology:	RFID system iID [®] 2000 or iID [®] 3000 , closed coupling, based on ISO 15693 or ISO 14443B
Memory:	read write type: EEPROM, endurance >100.000 cycles, data retention > 10 years, ID-No and user OTP possible
Comm. Distance:	up to 20 mm, dependent on reader antenna and metal environment
Dimensions:	approx. D 15 mm, max. TH 2.5 mm
Packaging Material:	chip in multi ferrite layer epoxy packaging, front side black EP, hermetically encapsulation
Mounting Instructions:	direct using on metal possible
Marking:	standard laser printed, optional one colour tampon printing
Operating Temperature:	-25°C ... +85°C
Storage Temperature:	-45°C ... +125°C (180°C for short time)
Appropriate RFID Reader:	PEN reader, UNI13, POCKET mini, CFC reader, M30 HEAD and more
HOST Command Set:	see actual API documentation of microsensus iID driver engine or data sheets of silicon chip manufacturer

TAG Types	12.32.550.50	12.36.550.50*	12.53.550.50	12.26.550.50*	
System:	ISO 15693	ISO 15693	ISO 15693-2	ISO 14443B	
Chip Type:	iID-M	iID-M long life	iID-G	iID-K	
Memory Capacity	2k RW	2k RW	16k RW	64k RW	bit
Data Retention	>10	>60	>10	>10	years
Comm. Rate	26.4	26.4	26.4	106	kbps
Comm. Distance	10	10	10	5	mm

measured with P13 reader antenna type, *) on inquiry

