

# 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 *microsensys* iID system solutions. Lens-shaped transponder devices are very useful for product identification in industry and administration especially for tagging of metal objects.

*microsensys* offers an attractive component platform for close coupling RFID solutions.



**microSensys**  
RFID in motion

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<b>Carrier Frequency:</b>	13.56 MHz
<b>Technology:</b>	RFID system iID®2000 or iID®3000, close coupling, based on ISO 15693 or ISO 14443B
<b>Memory:</b>	endurance >100.000 cycles, data retention >10/50 years, ID-No and user OTP possible
<b>Comm. Distance:</b>	up to 20 mm, dependent on reader antenna and metal environment
<b>Dimensions:</b>	approx. D 15 mm, max. TH 2.5 mm
<b>Packaging Material:</b>	chip in multi ferrite layer epoxy packaging, front side black EP, hermetic encapsulation
<b>Mounting Instructions:</b>	direct use on metal possible
<b>Marking:</b>	standard laser printed, optional single-colour tampon printing
<b>Operating Temperature:</b>	-25°C ... +85°C
<b>Storage Temperature:</b>	-45°C ... +125°C (180°C for short time)
<b>Appropriate RFID Reader:</b>	PEN reader, UNI13, POCKET mini, CFC reader, M30 HEAD and more
<b>HOST Command Set:</b>	see current API documentation of <i>microsensys</i> iID driver engine or data sheets of silicon chip manufacturer

TAG Types	12.32.550.50	12.47.550.50	12.53.550.50	
<b>System:</b>	ISO 15693	ISO 15693	ISO 15693-2	
<b>Chip Type:</b>	iID-M	SLIX-S	iID-G	
<b>Memory Capacity</b>	2k EEPROM	1.3k EEPROM	16k EEPROM	bit
<b>Data Retention</b>	>10	>50	>10	years
<b>Comm. Rate</b>	26.4	26.4	26.4	kbps
<b>Comm. Distance</b>	10	10	10	mm

measured with P13 reader antenna type, \*) on inquiry

