

# PRODUCT DATASHEET

iID® Transponder

## LABEL 2028special

### RFID flexible transponder label

- passive HF transponder device
- temperature range -25°C ... +65°C
- flexible LABEL on metal, size 20 x 28 mm
- contactless data communication ISO 18000-3

RFID transponder devices are an integral part of *microsensys* iID® system solution. These devices are very useful for applications in industrial solutions, in maintenance processes and transport and logistics. ISO 14443B TAGs are operating optimal with *microsensys* standard RFID reader.



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This data sheet is subject to change  
contact *microsensys* for latest information

LABEL2028sp 001.docx

<b>RFID Technology:</b>	RFID system iID®2000/3000 based on ISO 15693, 14443B, 18000-3	
<b>Chip Type:</b>	iID-H, iID-K	closed coupling communication
<b>Carrier Frequency:</b>	13.56 MHz	
<b>Communication Rate:</b>	26.4 kbps or 106 kbps	
<b>Communication Distance:</b>	0 ... 30 mm	depending on reader antenna and metal environment
<b>Data Memory:</b>	EEPROM	read write
<b>Functionality:</b>		UID, OTP, memory segmentation, password security
<b>Memory Capacity:</b>		16 or 64 kbit user memory
<b>Endurance/Data Retention:</b>		endurance >100.000 cycles, data retention > 10 years
<b>Operation Temperature:</b>	-25°C ... +65°C	
<b>Storage Temperature:</b>		-25°C ... +80°C
<b>Dimensions:</b>	20 x 28 mm², thickness max. 2.0 mm	
<b>Case Material:</b>		limited flexible, minimum bend radius 50mm chip in multi ferrite layer packaging, front side clear PU hermetically encapsulation
<b>Marking:</b>		printed product type on top optional unique ID-No, optional two color printing
<b>Mounting Instruction:</b>		self adhesive, direct using on metal possible
<b>Protection Class:</b>	IP64	
<b>Appropriate RFID Reader:</b>	PEN reader, UNI13, POCKET mini, M30 HEAD	
<b>HOST Command Set:</b>	see actual API documentation of <i>microsensys</i> iID driver engine or data sheets of silicon chip manufacturer	

<b>TAG Types</b>	<b>14.53.680.00</b>	<b>14.26.680.00</b>	<b>14.26.680.01*</b>	*) in development
<b>System:</b>	ISO 15693	ISO 14443B		
<b>Chip Type:</b>	iID-G	iID-K		
<b>Memory Capacity</b>	16k RW	64k RW		bit
<b>Comm. Distance</b>	25	15		mm
				measured with P13 reader antenna tvoe