

# PRODUCT DATASHEET

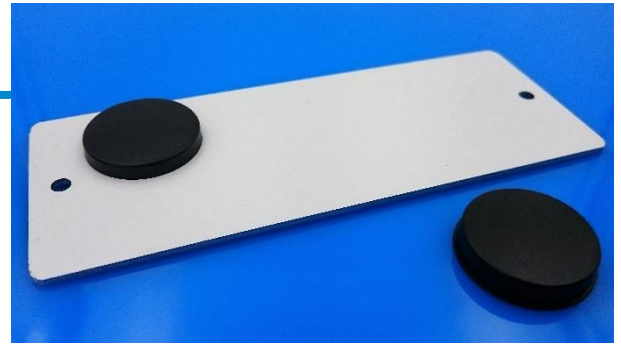
iID<sup>®</sup> Transponder

## D22-TAGspecial V6

HF-RFID transponder for integration in metal plates, for harsh environmental conditions and long life applications

- passive RFID communication 13.56 MHz
- round TAG, diameter approx. 22 mm
- EPOXY packaging
- for mounting in metal surface or top on metal
- up to 2 kbit EEPROM memory, data retention 50 years
- designed for part and equipment tagging

These transponder device is an integral part of *microsensys* iID<sup>®</sup> system solutions.



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**microSensys**  
RFID in motion

This is data sheet is subject to change  
Contact us for latest information

D22sp V6 001.docx

<b>RFID Technology:</b>	close coupling RFID system iID <sup>®</sup> 2000, compatible ISO 15693 / NFC forum type 5	
<b>Chip Type:</b>	I-Code SLI-XS, SLI-X others on request	
<b>Carrier Frequency:</b>	13.56 MHz	
<b>Communication Rate:</b>		down link 26.4 kbps
<b>Communication Distance:</b>	0 ... 25 mm	dependent on reader antenna, chip type and metal environment
<b>Memory:</b>	EEPROM	endurance >100.000 cycles, data retention > 50 years
<b>Memory Capacity:</b>		up to 2 (1.3 user memory) kbit EEPROM
<b>Special Functionality:</b>		see data sheet of chip manufacturer
<b>Operating Temperature:</b>	-25°C ... +55°C	
<b>Storage Temperature:</b>	-45°C ... +65°C	long term max. +55 °C, short time +85 °C
<b>Dimensions:</b>	approx. D 22 mm, max. TH 5 mm	
<b>Packaging Material:</b>	EPOXY, front side	back side: mixed ferrite epoxy hermetical encapsulation
<b>Mounting Instructions:</b>	flat in metal use possible or directly in metal plates with D22 mm hole	
<b>Marking:</b>	laser printing possible	
<b>Appropriate RFID Reader:</b>	PEN reader POCKET reader UNI13 or M30 HEAD	with RS232TTL, USB or Bluetooth interface with USB and Bluetooth interface especially for mobile data capture read write module, for microsensys OEM partners only
<b>HOST Command Set:</b>	see actual API documentation of microsensys iID <sup>®</sup> driver engine or data sheets of silicon chip manufacturer	

<b>Type :</b>	<b>13.47.560.60</b>	<b>13.45.560.60*</b>	*) on inquiry
<b>Chip Type:</b>	SLI-XS	SLI-X	
<b>Standard:</b>	ISO 15693	ISO 15693	
<b>User Memory:</b>	2	1	kbit
<b>Data Retention:</b>	50	50	years
<b>Communication Distance:</b>	25	25	mm