13.56 MHz transponder, from 64bit read only up to 256kbit EEPROM read write, in mid size half lens form, TAG on metal

This transponder package is available with different chip types based on ISO 15693 or 14443. They are integral part of microsensys iID system solution.

Lens form 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 closed coupling RFID solutions.

Technology: RFID system iID® 2000
closed coupling, 13.56 MHz, based on ISO 15693

Memory: read only type: laser programmed ROM
read write type: EEPROM, endurance > 100.000 cycles
data retention > 10 years

Carrier Frequency: 13.56 MHz

Communication Distance: 0 ... 15 mm, dependent on chip type, reader antenna and metal environment

Type:

<table>
<thead>
<tr>
<th>Type:</th>
<th>12.32.550</th>
<th>12.53.550</th>
</tr>
</thead>
<tbody>
<tr>
<td>System:</td>
<td>ISO 15693</td>
<td>ISO 15693-2</td>
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<td></td>
<td>RTF, iID2000</td>
<td>RTF, iID2000</td>
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<tr>
<td>Chip Type:</td>
<td>iID-M</td>
<td>iID-G</td>
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<td>Communication Rate:</td>
<td>26.4 kbps</td>
<td>26.4 kbps</td>
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<tr>
<td>Memory Capacity:</td>
<td>2k RW</td>
<td>16k RW</td>
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<tr>
<td>Communication Distance:</td>
<td>10 mm</td>
<td>10 mm</td>
</tr>
</tbody>
</table>

measured with P13 reader antenna type

Packaging: multi layer plastic package, front side black EP (laser printed)

Dimensions: approx. D 15 mm, max. TH 2.5 mm, half lens case

Mounting Instructions: direct using on metal

Operating Temperature: -25°C ... +85°C
Storage Temperature: -45°C ... +125°C (180°C for short time)

Appropriate RFID Reader: PEN reader with RS232TTL, USB, CFC or Bluetooth interface,
CFC reader for PDA with Compact Flash Card interface
HEAD reader with RS232TTL, RS485 or USB for industrial application
UNI13-Q20 RFID read write module, for microsensys OEM partner only

HOST Command Set: see actual API documentation of microsensys iID driver engine or data sheets of silicon chip manufacturer

glossary: OTP one time programmable, TTF tag talk first, RTF reader talk first, RW read/write, RO read only, RFID radio frequency identification,