

Product type designation

**MDS D127 transponder**

Transponder MDS D127 for RF200/RF300 ISO On-Metal  
 Transponder M6 ISO 15693 chip type, NXP ICODE SLI, 112 byte  
 user memory; 6x 6 mm (DxH); Minimum order quantity 10 units



Suitability for operation

RF200, RF300

**Radio frequencies**

Operating frequency / Rated value	13.56 MHz
Range / maximum	5 mm; range is reader dependent: observe <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
Protocol / with radio transmission	ISO 15693
Transfer rate / with radio transmission / maximum	26.5 kbit/s
Product feature / multitag-capable	Yes

**Electrical data**

Product component / Backup battery	No
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**Memory**

Type of memory	EEPROM
Storage capacity / of the user memory	112 byte
Type of memory organization	UID (fixed code) 8 bytes, user memory 112 bytes, configuration memory 8 bytes
Number of read cycles / at ambient temperature < 40 °C / maximum	10000000000000

Number of write cycles / at ambient temperature < 40 °C / maximum	1000000
Data retention time / at ambient temperature < 40 °C / not less than	10 y
Property of memory	Block-by-block write protection of the user memory
Type of transponder chip used	NXP I-Code SLI

#### Mechanical data

Material	PA6
Color	black
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm

#### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>during read/write access</li> </ul>	-25 ... +100 °C
<ul style="list-style-type: none"> <li>outside the read/write area</li> </ul>	-40 ... +125 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +125 °C
Protection class IP	IP68 / IPx9K
Shock resistance	According to DIN EN 60721-3-7 Class 7 M3
Shock acceleration	1000 m/s <sup>2</sup>
Vibrational acceleration	200 m/s <sup>2</sup>

#### Design, dimensions and weights

Height	5.8 mm
Diameter	6 mm
Net weight	1 g
Mounting type	gluing, screwing

#### Product features, product functions, product components / general

Product feature	
<ul style="list-style-type: none"> <li>printable</li> </ul>	No

#### Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> <li>IECEX</li> </ul>	No
MTBF	228 y

#### Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>

- to website: Industry Online Support

<https://support.industry.siemens.com>

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