

<b>Product type designation</b>	<b>MDS D127 transponder</b> 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 RF200, RF300
Suitability for operation	
<b>Radio frequencies</b>	
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
<b>Electrical data</b>	
Product component / Backup battery	No
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	100000000000000
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
<b>Mechanical data</b>	
Material	PA6
Color	black
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm
<b>Ambient conditions</b>	
Ambient temperature	
<ul style="list-style-type: none"> <li>• during read/write access</li> <li>• outside the read/write area</li> <li>• during storage</li> </ul>	-25 ... +100 °C -40 ... +125 °C -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>
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> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Image database</li> <li>to website: CAx Download Manager</li> <li>to website: Industry Online Support</li> </ul>	<p><a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a></p> <p><a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
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