

Product type designation

**MDS D126 transponder**

Transponder MDS D126 for RF200/RF300 ISO/MOBY D disk ISO 15693 chip type, NXP ICODE SLI, 112 byte user memory; 50x 3.6 mm (DxH); Minimum order quantity 250 units



Suitability for operation

RF200, RF300, MOBY D

Radio frequencies	
Operating frequency / Rated value	13.56 MHz
Range / maximum	500 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

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	PA6.6 GF
Color	black
Tightening torque / of the screw for securing the equipment / maximum	1 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	25 mm

### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>during read/write access</li> </ul>	-25 ... +85 °C
<ul style="list-style-type: none"> <li>outside the read/write area</li> </ul>	-40 ... +100 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +100 °C
Protection class IP	IP68
Shock resistance	According to DIN EN 60721-3-7 Class 7 M3
Shock acceleration	500 m/s <sup>2</sup>
Vibrational acceleration	200 m/s <sup>2</sup>

### Design, dimensions and weights

Height	3.6 mm
Diameter	50 mm
Net weight	13 g
Mounting type	M4 screw

### 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	171 y

### accessories

accessories	Mounting support and spacer
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### 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>

- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

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

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

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

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