

### Product type designation

### MDS D100 transponder

Transponder MDS D100 for RF200/RF300 ISO/MOBY D ISO Card PETix up to +80° ISO 15693 Chip type, NXP ICODE SLI, 112 byte user memory; 85x 54x 0.8 mm (LxWxH); Minimum order quantity 50 units



Wireless frequencies	
Operating frequency / Rated value	13.56 MHz
Range / maximum	650 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	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

### Mechanical data

Material	PET laminated plastic
Color	white / petrol
Mounting distance / relating to metal surfaces / recommended / minimum	20 mm

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>during read/write access</li> </ul>	-25 ... +80 °C
<ul style="list-style-type: none"> <li>outside the read/write area</li> </ul>	-25 ... +80 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-25 ... +80 °C
Protection class IP	IP68
Shock resistance	According to DIN EN 60721-3-7 Class 7 M3
Resistance to mechanical stress	Shock and vibration according to ISO 10373 / ISO 7810, torsion and twisting according to ISO 10373 / ISO 7816-1

### Design, dimensions and weight

Width	54 mm
Height	0.9 mm
Depth	85.6 mm
Net weight	5 g
Mounting type	Gluing, mounting bag (see accessories)

### Product properties, functions, components / general

Product feature	
<ul style="list-style-type: none"> <li>printable</li> </ul>	Yes
Printing process	Printable on both sides

### Standards, specifications, approvals

MTBF	228 y
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### Accessories

accessories	Fixing strap, holder, 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>
<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>

- to website: CAx Download Manager
- to website: Industry Online Support

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

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

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