

### Product type designation

### MDS D139 transponder

Transponder MDS D139 for RF200/RF300 ISO/MOBY D Heat-resistant up to +220 ° ISO 15693 Chip type, NXP ICODE SLI, 112 byte user memory; 85x 15 mm (DxH); Minimum order quantity 10 units



### Wireless frequencies

Operating frequency / Rated value	13.56 MHz
Range / maximum	600 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	PPS
Color	black
Tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	30 mm

### Permitted 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 ... +220 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +100 °C
Ambient condition / for operation	Operating temperature permanent up to 100 °C, at 220 °C: up to 2000 hours or 1500 temperature cycles, at 200 °C: up to 5000 hours or 3000 temperature cycles
Protection class IP	IP68 / IPx9K
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 weight

Height	15 mm
Diameter	85 mm
Net weight	50 g
Mounting type	M5 screw

### Product properties, functions, components / general

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

### Standards, specifications, approvals

Certificate of suitability	Ex: II 3 G Ex nA II T2, II 3 D Ex tD A22 IP68 T 210°C
MTBF	228 y

### Accessories

accessories	Spacer, quick-change holder
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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>

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

<http://www.siemens.com/ident/rfid>

<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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