

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 http://support.automation.siemens.com/WW/view/en/67384964
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	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	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"> during read/write access 	-25 ... +100 °C
<ul style="list-style-type: none"> outside the read/write area 	-40 ... +220 °C
<ul style="list-style-type: none"> during storage 	-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 ²
Vibrational acceleration	200 m/s ²

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"> silicon-free 	Yes
<ul style="list-style-type: none"> printable 	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"> to website: Selector SIMATIC NET SELECTION TOOL 	https://support.industry.siemens.com/cs/ww/en/view/67384964

- 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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