SIEMENS

Product type designation	**MDS D339 transponder**
	Transponder MDS D339 for RF200/RF300 ISO/MOBY D Heat-resistant up to +220 °C ISO 15693, Chip type INFINEON SRF 55V10P, 992-byte user memory; 85x 15 mm (DxH); Minimum order quantity 10 units

Suitability for operation	RF200, RF300, MOBY D

Radio frequencies

Operating frequency / Rated value	13.56 MHz
Range / maximum	480 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
Type of memory	EEPROM
Storage capacity / of the user memory	992 byte
Type of memory organization	UID (fixed code) 8 bytes, user memory 992 bytes, configuration memory 24 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	Infineon My-D SRF 55V10P

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

Ambient conditions

Ambient temperature	
• during read/write access	-25 ... +100 °C
• outside the read/write area	-40 ... +220 °C
• 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/s²
Vibrational acceleration	200 m/s²

Design, dimensions and weight

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

Product features, product functions, product components / general

Product feature	
• silicon-free	Yes
• printable	No

Standards, specifications, approvals

Certificate of suitability	
• IECEx	Yes
MTBF	228 y

accessories

accessories	Spacer, quick-change holder

Further information / Internet-Links

Internet-Link	

01/15/2020

- to website: Selector SIMATIC NET SELECTION TOOL

  https://support.industry.siemens.com/cs/ww/en/view/67384964

- to website: Industrial communication

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

- to website: Industry Mall

  https://mall.industry.siemens.com

- to website: Information and Download Center

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

- to website: Image database

  http://automation.siemens.com/bilddb

- to website: CAx Download Manager

  http://www.siemens.com/cax

- to website: Industry Online Support

  https://support.industry.siemens.com

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