SIEMENS

Product type designation

MDS D139 transponder

TRANSPONDER MDS D139 FOR RF200/ RF300 ISO/ MOBY D
HEAT RESISTANT UP TO +220 DGR ISO 15693 CHIP TYPE, NXP
ICODE SLI, 112 BYTE USER MEMORY; 85 X 15 MM (DXH); -25 UP
TO +220 DGR; MINIMAL ORDER QUANTITY 10 PCS

Wireless frequencies	
Operating frequency / Rated value	13.56 MHz

Electrical data	
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 property / multitag-capable	Yes
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	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	
• 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
Resistance against vibration	200 m/s²

Design, dimensions and weight

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

Product properties, functions, components / general

Product property	
• silicon-free	Yes
• 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

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• 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