SIEMENS

product type designation	**MDS D124 transponder**

Transponder MDS D124 for RF200/RF300 ISO/MOBY D button Heat-resistant up to +180 ° ISO 15693 Chip type, NXP ICODE SLI, 112 byte user memory; 27x 4 mm (DxH); Minimum ordering quantity 20 units

suitability for operation	RF200, RF300, MOBY D
radio frequencies	
operating frequency / rated value	13.56 MHz
range / maximum	300 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
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 N·m
mounting distance / relating to metal surfaces / recommended / minimum	15 mm
ambient conditions	
ambient temperature	
● during read/write access	-25 ... +125 °C
● outside the read/write area	-40 ... +180 °C
● during storage	-40 ... +125 °C
ambient condition / for operation	Operating temperature permanent up to 100 °C, at 180 °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	1000 m/s²
vibrational acceleration	200 m/s²
design, dimensions and weights	
height	4 mm
diameter	27 mm
net weight	5 g
fastening method	M3 screw, gluing
product features, product functions, product components / general	
product feature	
● silicon-free	Yes
● printable	No
standards, specifications, approvals	
certificate of suitability	
● IECEx	Yes
● for IECEx / as marking	Ex: II 1 G Ex ia IIC T6 to T3 Ga / II 1 D Ex ia IIIC T80 °C to T180 °C Da
MTBF	171 y
accessories	
accessories	Mounting support and spacer
further information / internet-Links	
Internet-Link	
● to web page: selection aid TIA 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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