

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
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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 N·m
mounting distance / relating to metal surfaces / recommended / minimum	15 mm

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> during read/write access 	-25 ... +125 °C
<ul style="list-style-type: none"> outside the read/write area 	-40 ... +180 °C
<ul style="list-style-type: none"> 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/s ²
vibrational acceleration	200 m/s ²

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

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> IECEX 	Yes
MTBF	171 y

accessories

accessories	Mounting support and spacer
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further information / internet-Links

Internet-Link	
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- to website: Selector TIA Selection Tool
- 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

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

<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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