

Product type designation

MDS D124 transponder

TRANSPONDER MDS D124 FOR RF200/ RF300 ISO/ MOBY D
 BUTTON HEAT RESISTANT UP TO +180 DGR ISO 15693 CHIP
 TYPE, NXP ICODE SLI, 112 BYTE USER MEMORY; 27 X 4 MM
 (DXH); -25 UP TO +180 DGR; MINIMAL ORDER QUANTITY 20
 PCS



Wireless frequencies

Operating frequency / Rated value	13.56 MHz
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Electrical data

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 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
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Color	black
Tightening torque / of the screw for securing the equipment / maximum	1 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	25 mm

Permitted 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
Resistance against vibration	200 m/s ²

Design, dimensions and weight

Height	4 mm
Diameter	27 mm
Net weight	5 g
Mounting type	M3 screw, gluing

Product properties, functions, components / general

Product property	
<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 1 G Ex ia IIC T3T6 Ga / II 1 D Ex ia IIIC T80°C T180°C
MTBF	171 y

Accessories

accessories	Mounting support and spacer
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Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> to website: Information and Download Center 	http://www.siemens.com/automation/net/catalog
<ul style="list-style-type: none"> to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> to website: Industry Online Support 	https://support.industry.siemens.com

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