

product type designation

MDS D100 transponder

Transponder MDS D100 for RF200/RF300 ISO/MOBY D ISO Card PETix up to +80° ISO 15693 Chip type, NXP ICODE SLI, 112 byte user memory; 85x 54x 0.8 mm (LxWxH); Minimum order quantity 50 units.



suitability for operation

RF200, RF300, MOBY D

radio frequencies

operating frequency / rated value	13.56 MHz
range / maximum	650 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	1E+14
number of write cycles / at ambient temperature < 40 °C / maximum	100000
data retention time / at ambient temperature < 40 °C / not less than	10 a
property of memory	Block-by-block write protection of the user memory
type of transponder chip used	NXP I-Code SLI

mechanical data

material	PET laminated plastic
color	white / petrol
mounting distance / relating to metal surfaces / recommended / minimum	20 mm

ambient conditions

ambient temperature	
• during read/write access	-25 ... +80 °C
• outside the read/write area	-25 ... +80 °C
• during storage	-25 ... +80 °C
protection class IP	IP68
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
resistance to mechanical stress	Shock and vibration according to ISO 10373 / ISO 7810, torsion and twisting according to ISO 10373 / ISO 7816-1

design, dimensions and weights

width	54 mm
height	0.9 mm
depth	85.6 mm

net weight	5 g
fastening method	gluing, mounting bag (see accessories)
product features, product functions, product components / general	
product feature	
• printable	Yes
printing process	Printable on both sides
standards, specifications, approvals	
certificate of suitability	
• IECEx	No
MTBF	228 a
reference code	
• according to IEC 81346-2:2019	CFA
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	0.93 kg
• during manufacturing	0.88 kg
• during operation	0.00041 kg
• after end of life	0.05 kg
accessories	
accessories	Fixing strap, holder, spacer
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
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Approvals / Certificates		
General Product Approval	EMV	Environment



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Environment



last modified:

9/7/2024

