

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

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> during read/write access 	-25 ... +80 °C
<ul style="list-style-type: none"> outside the read/write area 	-25 ... +80 °C
<ul style="list-style-type: none"> 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
mounting type	Gluing, mounting bag (see accessories)

product features, product functions, product components / general

product feature	
<ul style="list-style-type: none"> printable 	Yes
printing process	Printable on both sides

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> IECEX 	No
MTBF	228 y

accessories

accessories	Fixing strap, holder, spacer
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further information / internet-Links

Internet-Link	
<ul style="list-style-type: none"> to website: Selector TIA Selection Tool 	https://support.industry.siemens.com/cs/ww/en/view/67384964
<ul style="list-style-type: none"> to website: Industrial communication 	http://www.siemens.com/ident/rfid
<ul style="list-style-type: none"> to website: Industry Mall 	https://mall.industry.siemens.com

- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<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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