

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	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	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 SIMATIC NET 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

- 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://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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