

### 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 <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
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	1000000
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)
<b>product features, product functions, product components / general</b>	
product feature	
• printable	Yes
printing process	Printable on both sides
<b>standards, specifications, approvals</b>	
certificate of suitability	
• IECEx	No
MTBF	228 a
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
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
<b>accessories</b>	
accessories	Fixing strap, holder, spacer
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>
• to website: Industrial communication	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAX-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>last modified:</b>	12/15/2023 