

Product type designation

MDS D100 transponder

TRANSPONDER MDS D100 FOR RF200/ RF300 ISO/ MOBY D PC ISO CARD UP TO +80 DGR ISO 15693 CHIP TYPE, NXP ICODE SLI, 112 BYTE USER MEMORY; 85 X 54 X 0.8 MM (LXDXH); -25 UP TO +80 DGR MINIMAL ORDER QUANTITY 50 PCS



Wireless frequencies

Operating frequency / Rated value	13.56 MHz
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Electrical data

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 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	PC laminated plastic
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Color	white / petrol
Mounting distance / relating to metal surfaces / recommended / minimum	20 mm

Permitted 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 7816-3

Design, dimensions and weight

Width	54 mm
Height	0.9 mm
Depth	85.6 mm
Net weight	5 g
Mounting type	Gluing, mounting bag (see accessories)

Product properties, functions, components / general

Product property	
<ul style="list-style-type: none"> printable 	Yes
Printing process	Printable on both sides

Standards, specifications, approvals

MTBF	228 y
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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 	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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