

product type designation



MDS D160 transponder

Transponder MDS D160 for RF200/RF300 ISO/MOBY D heat resistant up to +175 ° ISO 15693 Chip type, NXP ICODE SLI, 112 byte user memory; 16x 3 mm (DxH); Minimum order quantity 100 units.

suitability for operation

RF200, RF300, MOBY D

radio frequencies

operating frequency / rated value	13.56 MHz
range / maximum	180 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	PPS
color	beige
mounting distance / relating to metal surfaces / recommended / minimum	10 mm

ambient conditions

ambient temperature	
• during read/write access	-25 ... +85 °C
• outside the read/write area	-40 ... +175 °C
• during storage	-25 ... +100 °C
ambient condition / for operation	Operating temperature permanent up to 100 °C, up to 175 °C min. 100 washing cycles, one time up to 220 °C for 30 s
protection class IP	IP68/IPx9K
shock resistance	According to DIN EN 60721-3-7 Class 7 M3
shock acceleration	400 m/s ²
vibrational acceleration	100 m/s ²

design, dimensions and weights

height	3 mm
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diameter	16 mm
net weight	1.2 g
fastening method	patch, sewing, gluing

product features, product functions, product components / general

product feature	
• printable	No

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	Mounting support and spacer
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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
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EG-Konf.



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Environment

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