

Product type designation



MDS D421 transponder

TRANSPONDER MDS D421 FUER RF200/ RF300 ISO TOOL PILL
IN METAL ISO 15693 CHIP TYPE,FUJITSU MB89R118, 2000 BYTE
FRAM USER MEMORY 10 X 4.5 MM (DXH); -25 UP TO +85 DGR;
MINIMAL ORDER QUANTITY 10 PCS

Wireless frequencies

Operating frequency / Rated value	13.56 MHz
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Electrical data

Range / maximum	8 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	FRAM
Storage capacity / of the user memory	2000 byte
Type of memory organization	UID (fixed code) 8 bytes, user memory 2000 bytes, configuration memory 40 bytes
Number of read cycles / at ambient temperature < 40 °C / maximum	10000000000
Number of write cycles / at ambient temperature < 40 °C / maximum	10000000000
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	Fujitsu MB89R118

Mechanical data

Material	Epoxy resin
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Color	black
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> during read/write access 	-25 ... +85 °C
<ul style="list-style-type: none"> outside the read/write area 	-40 ... +100 °C
<ul style="list-style-type: none"> during storage 	-40 ... +100 °C
Protection class IP	IP67 / IPx9K
Shock resistance	According to DIN EN 60721-3-7 Class 7 M3
Shock acceleration	1000 m/s ²
Resistance against vibration	200 m/s ²

Design, dimensions and weight

Height	4.5 mm
Diameter	10 mm
Net weight	1 g
Mounting type	gluing

Product properties, functions, components / general

Product property	
<ul style="list-style-type: none"> silicon-free 	Yes
<ul style="list-style-type: none"> printable 	No

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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