

Product type designation

MDS D422 transponder

Transponder MDS D422 for RF200/RF300 ISO M20 for screwing into metal, ISO 15693, Chip type FUJITSU MB89R118, 2000 byte FRAM
User memory 20x 6 mm (DxH); Minimum order quantity 5 units



Suitability for operation

RF200, RF300

Radio frequencies

Operating frequency / Rated value	13.56 MHz
Range / maximum	19 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	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	1000000000000

Number of write cycles / at ambient temperature < 40 °C / maximum	1000000000000
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	PA6.6 GF / brass, nickel-plated
Color	black / silver
Tightening torque / of the screw for securing the equipment / maximum	1 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm

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	IP68
Shock resistance	According to DIN EN 60721-3-7 Class 7 M3
Shock acceleration	500 m/s ²
Vibrational acceleration	200 m/s ²

Design, dimensions and weights

Height	6 mm
Diameter	20 mm
Net weight	13 g
Mounting type	Thread M20 x 1, glue

Product features, product functions, product components / general

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

Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> IECEX 	No
MTBF	228 y

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
<ul style="list-style-type: none"> to website: Industry Mall 	https://mall.industry.siemens.com

- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<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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