

Product type designation

MDS D422 transponder

TRANSPONDER MDS D422 FOR RF200/ RF300 ISO M20 FOR SCREWING IN METAL ISO 15693 CHIP TYPE, FUJITSU MB89R118, 2000 BYTE FRAM USER MEMORY 20 X 6 MM (DXH); - 25 UP TO +85 DGR C; MINIMAL ORDER QUANTITY 5 PCS



Wireless frequencies

Operating frequency / Rated value	13.56 MHz
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Electrical data

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
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	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

Permitted ambient conditions

Ambient temperature	
• during read/write access	-25 ... +85 °C
• outside the read/write area	-40 ... +100 °C
• 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 weight

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

Product properties, functions, components / general

Product feature	
• silicon-free	Yes
• printable	No

Standards, specifications, approvals

MTBF	228 y
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Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAX Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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