

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 |
|------------------------------------|----|

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 | 1E+12 |
| number of write cycles / at ambient temperature < 40 °C / maximum | 1E+12 |
| 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 | 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 | -25 ... +85 °C |
| <ul style="list-style-type: none"> during read/write access outside the read/write area 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 |
| fastening method | Thread M20 x 1, glue |
| product features, product functions, product components / general | |
| product feature | |
| • silicon-free | Yes |
| • printable | No |
| standards, specifications, approvals | |
| certificate of suitability | |
| • IECEx | No |
| MTBF | 228 a |
| further information / internet-Links | |
| Internet-Link | |
| • to web page: selection aid TIA 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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