

Product type designation



MDS D160 transponder

TRANSPONDER MDS D160 FOR RF200/ RF300 ISO/ MOBY D
HEAT RESISTANT UP TO +175 DGR ISO 15693 CHIP TYPE, NXP
ICODE SLI, 112 BYTE USER MEMORY; 16 X 3 MM (DXH); -25 UP
TO +175 DGR; MINIMAL ORDER QUANTITY 100 PCS.

Wireless frequencies

| | |
|-----------------------------------|-----------|
| Operating frequency / Rated value | 13.56 MHz |
|-----------------------------------|-----------|

Electrical data

| | |
|---|---|
| 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 property / multitag-capable | Yes |
| Product component / Backup battery | No |

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 | 100000000000000 |
| Number of write cycles / at ambient temperature < 40 °C / maximum | 1000000 |
| 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 | NXP I-Code SLI |

Mechanical data

| | |
|----------|-----|
| Material | PPS |
|----------|-----|

| | |
|--|-------|
| Color | beige |
| Mounting distance / relating to metal surfaces / recommended / minimum | 25 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 ... +175 °C |
| <ul style="list-style-type: none"> 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 |
| Resistance against vibration | 100 m/s ² |

Design, dimensions and weight

| | |
|---------------|-----------------------|
| Height | 3 mm |
| Diameter | 16 mm |
| Net weight | 1.2 g |
| Mounting type | patch, sewing, gluing |

Product properties, functions, components / general

| | |
|---|----|
| Product property | |
| <ul style="list-style-type: none"> printable | No |

Standards, specifications, approvals

| | |
|------|-------|
| MTBF | 228 y |
|------|-------|

Accessories

| | |
|-------------|-----------------------------|
| accessories | Mounting support and spacer |
|-------------|-----------------------------|

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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