

### Product type designation

### MDS D127 transponder

TRANSPONDER MDS D127 FOR RF200/ RF300 ISO ON METAL  
TRANSPONDER M6 ISO 15693 CHIP TYPE, NXP ICODE SLI, 112  
BYTE USER MEMORY; 6 X 6 MM (DXH); -40 UP TO +125 DGR  
MINIMAL ORDER QUANTITY 10 PCS



### Wireless frequencies

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

### Electrical data

|                                                   |                                                                                                                                                                               |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range / maximum                                   | 5 mm; range is reader dependent: observe<br><a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a> |
| 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                                                       | EEPROM                                                                           |
| Storage capacity / of the user memory                                | 112 byte                                                                         |
| Type of memory organization                                          | UID (fixed code) 8 bytes, user memory 112 bytes, configuration<br>memory 8 bytes |
| Number of read cycles / at ambient temperature < 40<br>°C / maximum  | 100000000000000                                                                  |
| Number of write cycles / at ambient temperature < 40<br>°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                                                               | PA6   |
| Color                                                                  | black |
| Mounting distance / relating to metal surfaces / recommended / minimum | 0 mm  |

#### Permitted ambient conditions

|                               |                                          |
|-------------------------------|------------------------------------------|
| Ambient temperature           |                                          |
| • during read/write access    | -25 ... +100 °C                          |
| • outside the read/write area | -40 ... +125 °C                          |
| • during storage              | -40 ... +125 °C                          |
| Protection class IP           | IP68 / IPx9K                             |
| Shock resistance              | According to DIN EN 60721-3-7 Class 7 M3 |
| Shock acceleration            | 1000 m/s <sup>2</sup>                    |
| Vibrational acceleration      | 200 m/s <sup>2</sup>                     |

#### Design, dimensions and weight

|               |                  |
|---------------|------------------|
| Height        | 5.8 mm           |
| Diameter      | 6 mm             |
| Net weight    | 1 g              |
| Mounting type | gluing, screwing |

#### Product properties, functions, components / general

|                 |    |
|-----------------|----|
| Product feature |    |
| • printable     | No |

#### Standards, specifications, approvals

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

#### Further Information / Internet Links

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

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