

### Product type designation

### MDS D165 label

HF LABEL MDS D165 FOR RF200/ RF300 ISO/ MOBY D PET LABEL, ADHESIVE ISO 15693 CHIP TYPE, NXP ICODE SLI, 112 BYTE USER MEMORY; 86 X 54 X 0.3MM (LXDXH); -25 UP TO +85 DGR; MINIMAL ORDER QUANTITY 1000 PCS



### Wireless frequencies

Operating frequency / Rated value	13.56 MHz
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### Electrical data

Range / maximum	500 mm; range is reader dependent: observe <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 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	Top side + inlay: PET, antenna aluminum
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Color	white
Mounting distance / relating to metal surfaces / recommended / minimum	25 mm

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>during read/write access</li> </ul>	-25 ... +85 °C
<ul style="list-style-type: none"> <li>outside the read/write area</li> </ul>	-25 ... +85 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	20 ... 30 °C
Protection class IP	IP65
Resistance to mechanical stress	Maximum storage period: 2 years (determined by durability of the adhesive)

### Design, dimensions and weight

Width	54 mm
Height	0.3 mm
Depth	86 mm
Net weight	1 g
Mounting type	one-side adhesible

### Product properties, functions, components / general

Product property	
<ul style="list-style-type: none"> <li>printable</li> </ul>	Yes
Printing process	Thermal transfer process

### Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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