

### Product type designation

### MDS D400 transponder

TRANSPONDER MDS D400 FOR RF200/ RF300 ISO/ MOBY D PVC ISO CARD UP TO +60 DGR ISO 15693 CHIP TYPE, FUJITSU MB89R118, 2000 BYTE FRAM USER MEMORY 85 X 54 X 0.8 MM (LXDXH); -25 UP TO +60 DGR; MINIMAL ORDER QUANTITY 50 PCS



### Wireless frequencies

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

Range / maximum	650 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	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	10000000000
Number of write cycles / at ambient temperature < 40 °C / maximum	10000000000
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	PVC laminated plastic
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Color	white
Mounting distance / relating to metal surfaces / recommended / minimum	20 mm

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>during read/write access</li> </ul>	-25 ... +60 °C
<ul style="list-style-type: none"> <li>outside the read/write area</li> </ul>	-25 ... +60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-25 ... +60 °C
Protection class IP	IP67
Shock resistance	According to DIN EN 60721-3-7 Class 7 M3
Resistance to mechanical stress	acc. to ISO 10373/ ISO 7816-1

### Design, dimensions and weight

Width	54 mm
Height	0.8 mm
Depth	85.6 mm
Net weight	5 g
Mounting type	gluing, mounting bag (see accessories)

### Product properties, functions, components / general

Product property	
<ul style="list-style-type: none"> <li>printable</li> </ul>	Yes
Printing process	Printable on both sides

### Standards, specifications, approvals

MTBF	228 y
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### Accessories

accessories	Fixing strap, holder, spacer
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### 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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