

Product type designation

MDS U589 transponder

MOBY U MOBILE DATA MEMORY MDS U589, HEAT-RESISTANT, 32 KBYTE RAM, IP 68,-25 TO MAX. +220 DEGR/C CYCLIC, D=114 MM, H=83 MM



Wireless frequencies

Operating frequency	2400 ... 2435 MHz
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Electrical data

Range / maximum	3 m; Range adjustable in reader in steps of 0.5 m
Protocol / with radio transmission	ISO 18000-4
Transfer rate / with radio transmission / maximum	384 kbit/s
Product feature / multitag-capable	Yes
Polarization	Circular
Product component / Backup battery	Yes
Product feature / Replaceable battery	No
Battery life / typical	3 y

Memory

Type of memory	RAM
Storage capacity / of the user memory	32768 byte
Type of memory organization	UID (fixed code) 4 bytes, OTP: 16 bytes, user memory 32768 bytes
Number of read cycles / at ambient temperature < 40 °C / maximum	10000000000000

Number of write cycles / at ambient temperature < 40 °C / maximum	1000000000000000
Data retention time / at ambient temperature < 40 °C / not less than	3 y

Mechanical data

Material	PPS
Color	brown
Mounting distance / relating to metal surfaces / recommended / minimum	0 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 	-25 ... +220 °C
<ul style="list-style-type: none"> during storage 	-40 ... +85 °C
Ambient condition / for operation	Cyclic operation at ambient temperature >85 °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	50 m/s ²
Resistance to mechanical stress	Free fall 1 m

Design, dimensions and weight

Height	83 mm
Diameter	114 mm
Net weight	600 g
Mounting type	mount (see accessories)

Product properties, functions, components / general

Product feature	
<ul style="list-style-type: none"> silicon-free 	Yes

Standards, specifications, approvals

Certificate of suitability	Ex: II 1 G Ex ia IIC T3 ⚡ T6 Ga / II 1 D Ex ia IIIC T80°C ⚡ T180°C
MTBF	285 y

Accessories

accessories	Skid holder, shrouding cover, universal holder
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Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> to website: Selector SIMATIC NET SELECTION TOOL 	https://support.industry.siemens.com/cs/ww/en/view/67384964
<ul style="list-style-type: none"> to website: Industrial communication 	http://www.siemens.com/ident/rfid
<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/industry/infocenter

- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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