

Product type designation

RF380T transponder

SIMATIC RF300 TRANSPONDER RF380T HEAT-PROOF, 32 KB FRAM, IP 68, -25 UP TO MAX. +220 DGR/C CYCLIC, D=114 MM, H=83 MM



Wireless frequencies

Operating frequency / Rated value	13.56 MHz
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Electrical data

Range / maximum	160 mm; range is reader dependent: observe http://support.automation.siemens.com/WW/view/en/67384964
Protocol / with radio transmission	RF300-specific
Transfer rate / with radio transmission / maximum	106 kbit/s
Product feature / multitag-capable	Yes
Product component / Backup battery	No

Memory

Type of memory	FRAM/EEPROM
Storage capacity / of the user memory	32765 byte
Type of memory organization	UID (fixed code) 4 bytes, user memory 32765 bytes, OTP memory 20 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 OTP memory
Mechanical data	
Material	PPS
Color	brown
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm
Permitted ambient conditions	
Ambient temperature	
• during read/write access	-25 ... +110 °C
• outside the read/write area	-40 ... +220 °C
• during storage	-40 ... +110 °C
Ambient condition / for operation	Cyclic operation at ambient temperature >110 °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	200 m/s ²
Design, dimensions and weight	
Height	83 mm
Diameter	114 mm
Net weight	900 g
Mounting type	mount (see accessories)
Product properties, functions, components / general	
Product feature	
• silicon-free	Yes
• printable	No
Standards, specifications, approvals	
Certificate of suitability	Ex: II 3G Ex nC IIB T5
MTBF	1200 y
Accessories	
accessories	Skid holder, shrouding cover, universal holder
Further Information / Internet Links	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb

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

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

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

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