

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 property / 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
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Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> during read/write access 	-25 ... +110 °C
<ul style="list-style-type: none"> outside the read/write area 	-40 ... +220 °C
<ul style="list-style-type: none"> 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
Resistance against vibration	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 property	
<ul style="list-style-type: none"> silicon-free 	Yes
<ul style="list-style-type: none"> 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
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Further Information / Internet Links

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