

Product type designation

RF280R reader

SIMATIC RF200 Reader RF280R RS422 interface (3964R) IP67, -10 to +60 °C, 160x 80x 41 mm with integrated antenna



Suitability for operation

ISO 15693 Transponder (MDS Dxxx), for connecting to communication modules

Radio frequencies

Operating frequency / Rated value	13.56 MHz
Range / maximum	200 mm; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
Protocol / with radio transmission	ISO 15693, ISO 18000-3
Transfer rate / with radio transmission / maximum	26.5 kbit/s
Product feature / multitag-capable	No

Electrical data

Transfer rate / at the point-to-point connection / serial / maximum	115.2 kbit/s
Transmission time / for user data	
• for write access / per byte / typical	0.6 ms
• for read access / per byte / typical	0.6 ms

Interfaces

Standard for interfaces / for communication	RS422
Type of electrical connection	M12, 8-pin

- for communications interface

M12, 8-pin

Mechanical data

Material	PA 12
Color	Ti gray
Tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm

Supply voltage, current consumption, power loss

Supply voltage	
<ul style="list-style-type: none"> • at DC / Rated value 	24 V
<ul style="list-style-type: none"> • at DC 	20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical 	0.13 A

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +85 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +85 °C
Protection class IP	IP67
Shock resistance	EN 60721-3-7 Class 7 M2
Shock acceleration	500 m/s ²
Vibrational acceleration	200 m/s ²

Design, dimensions and weights

Width	80 mm
Height	41 mm
Depth	160 mm
Net weight	0.6 kg
Mounting type	4 x M5 screws
Wire length	
<ul style="list-style-type: none"> • for RS 422 interface / maximum 	1000 m

Product features, product functions, product components / general

Display version	3-color LED
Product feature / silicon-free	Yes

Standards, specifications, approvals

Certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
Certificate of suitability	
<ul style="list-style-type: none"> • IECEX 	No
MTBF	173 y

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/67384964>

<http://www.siemens.com/ident/rfid>

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

<http://www.siemens.com/industry/infocenter>

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

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

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