

Product type designation

RF220R reader

SIMATIC RF200 reader RF220R; RS422 interface (3964R); IP67, -25 to +70 °C; M30x 71mm; 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	35 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

Mechanical data	
Material	Brass, nickel-plated / PBT
Color	silver/pastel turquoise
Tightening torque / of the screw for securing the equipment / maximum	40 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 	0.05 A

Ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-20 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-25 ... +80 °C
<ul style="list-style-type: none"> • during transport 	-25 ... +80 °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	
Height	83 mm
Diameter	30 mm
Net weight	0.14 kg
Mounting type	2 nuts M30 x 1.5 (included in scope of supply)
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	501 y

Further information / Internet-Links	
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

last modified:

<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>

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

05/12/2020