

product type designation



RF250R reader

SIMATIC RF200 Reader RF250R with RS422 interface (3964R) without antenna IP65, -25 to +70 °C, 50x 50x 30 mm, can be operated with: ANT 1, 3, 3NO, 8, 12, 18, 30.

suitability for operation

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

radio frequencies

operating frequency / rated value	13.56 MHz
range / maximum	60 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

number of external antennas	1
standard for interfaces / for communication	RS422
type of electrical connection	
• for external antenna(s)	M8, 4-pin
• for communications interface	M12, 8-pin

mechanical data

material	PA6.6
color	anthracite
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 / at DC	
• rated value	24 V
•	20.4 ... 28.8 V
consumed current / at DC	
• at 24 V / typical	0.05 A

ambient conditions

ambient temperature	
• during operation	-20 ... +70 °C
• during storage	-25 ... +80 °C
• during transport	-25 ... +80 °C
protection class IP	IP65
shock resistance	EN 60721-3-7 Class 7 M2

shock acceleration	500 m/s²	
vibrational acceleration	200 m/s²	
design, dimensions and weights		
width	50 mm	
height	30 mm	
depth	50 mm	
net weight	0.06 kg	
fastening method	2 x M5 screws	
wire length		
• 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		
• IECEx	No	
MTBF	430 a	
reference code		
• according to IEC 81346-2:2019	BYB	
standards, specifications, approvals / Environmental Product Declaration		
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	124.25 kg	
• during manufacturing	11.24 kg	
• during operation	112.71 kg	
• after end of life	0.3 kg	
accessories		
accessories	Various antennas are available	
further information / internet links		
internet link		
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	
• to web page: RFID country approval	https://www.siemens.com/rfid-approvals	
• to web page: identification and localization systems	https://www.siemens.com/ident	
• to web page: SiePortal	https://sieportal.siemens.com/	
• to website: Image database	https://www.automation.siemens.com/bilddb	
• to website: CAX-Download-Manager	https://www.siemens.com/cax	
• to website: Industry Online Support	https://support.industry.siemens.com	
security information		
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Approvals / Certificates		
General Product Approval	EMV	Radio Equipment Type Approval Certificate



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[Miscellaneous](#)

Radio Equipment
Type Approval Certi-
ficate

Environment

[Miscellaneous](#)

[Confirmation](#)



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