

product type designation



RF290R reader

SIMATIC RF200 reader RF290R without antenna; with serial RS 232/RS 422 interface can be selected for connection of the antennas ANT D2; ANT D5; ANT D6; ANT D10.

Technical Product Detail Page

<https://l.siemens.com/1P6GT2821-0AC12>

suitability for operation

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

radio frequencies

operating frequency / rated value	13.56 MHz
range / maximum	650 mm; Range adjustable in reader via transmission power, 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	Yes

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/RS232
type of electrical connection	M12, 8-pin
• for external antenna(s)	TNC
• for supply voltage	M12, 8-pin
• for communications interface	M12, 8-pin
• at the digital inputs/outputs	M12, 4-pin, female connector
number of digital inputs	1
number of digital outputs	1

mechanical data

material	aluminum
color	silver/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
•	21.6 ... 26.4 V
consumed current / at DC	
• at 24 V / typical	0.4 A

<ul style="list-style-type: none"> • at 24 V / maximum 	0.5 A
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-20 ... +55 °C
<ul style="list-style-type: none"> • during storage 	-25 ... +85 °C
<ul style="list-style-type: none"> • during transport 	-25 ... +85 °C
protection class IP	IP65
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	300 m/s ²
vibrational acceleration	20 m/s ²
design, dimensions and weights	
width	200 mm
height	80 mm
depth	140 mm
net weight	1.8 kg
fastening method	4 M4 screws, DIN rail 35 mm, S7-300 mounting rail
wire length	
<ul style="list-style-type: none"> • of antenna cable / minimum 	3.3 m
<ul style="list-style-type: none"> • of antenna cable / maximum 	25 m
<ul style="list-style-type: none"> • with RS 232 interface / maximum 	30 m
<ul style="list-style-type: none"> • for RS 422 interface / maximum 	1000 m
product features, product functions, product components / general	
display version	4 LEDs
standards, specifications, approvals	
certificate of suitability	CE, FCC, IC (Canada)
certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	No
MTBF	18 a
accessories	
accessories	Various antennas are available, antenna combiners, antenna multiplexer, mounting set for top-hat rail mounting
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to web page: RFID country approval 	https://www.siemens.com/rfid-approvals
<ul style="list-style-type: none"> • to web page: identification and localization systems 	https://www.siemens.com/ident
<ul style="list-style-type: none"> • to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> • to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	https://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)
Approvals / Certificates	
General Product Approval	



[China RoHS](#)

[Manufacturer Declaration](#)

EMV	Radio Equipment Type Approval Certificate				Environment
KC	Miscellaneous	Industry Canada (IC)	FCC	KC	

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