

Data sheet

6GT2821-0AC12

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.

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	
• for external antenna(s)	M12, 8-pin
• for supply voltage	TNC
• for communications interface	M12, 8-pin
• at the digital inputs/outputs	M12, 8-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
• at 24 V / maximum	0.5 A

ambient conditions

ambient temperature	-20 ... +55 °C	
• during operation	-25 ... +85 °C	
• during storage	-25 ... +85 °C	
• during transport		
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		
• of antenna cable / minimum	3.3 m	
• of antenna cable / maximum	25 m	
• with RS 232 interface / maximum	30 m	
• 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		
• IECEx	No	
MTBF	18 a	
reference code		
• according to IEC 81346-2:2019	BYB	
accessories		
accessories	Various antennas are available, antenna combiners, antenna multiplexer, mounting set for top-hat rail mounting	
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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Radio Equipment Type Approval Certificate

Environment

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