SIEMENS

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	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
● at DC	21.6 ... 26.4 V
consumed current / at DC	
● at 24 V / typical	0.4 A

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● at 24 V / maximum	0.5 A

ambient conditions	
ambient temperature	
● during operation	-20 ... +55 °C
● during storage	-25 ... +85 °C
● during transport	-25 ... +85 °C
protection class IP	IP65
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	300 m/s²
vibrational acceleration	20 m/s²

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 wire / minimum	3.3 m
● of antenna wire / 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 y

accessories	
accessories	Various antennas are available, antenna combiners, antenna multiplexer, mounting set for top-hat rail mounting

further information / internet-Links	
Internet-Link	
● to web page: selection aid TIA Selection Tool	https://support.industry.siemens.com/cs/ww/en/view/67384964
● to website: Industrial communication	http://www.siemens.com/ident/rfid
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx-Download-Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

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