SIEMENS

Data sheet 6GT2821-5AC32

Product type designation

RF250R reader IO-Link

SIMATIC RF200 Reader RF250R IO-Link IO-Link interface without antenna IP65, -25 to +70 °C, 50x 50x 30 mm, can be operated with: ANT 1, 3, 3 NO, 8, 12, 18, 30; 8 byte IO; 38.4 Kbps



Suitability for operation	ISO 15693 transponder (MDS Dxxx), for connecting to IO-Link Master V1.0

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	38.4 kbit/s
Transmission time / for user data	
• for write access / per byte / typical	40 ms
• for read access / per byte / typical	40 ms
Amount of data / of the address area of the inputs / total	8 byte
Amount of data / of the address area of the outputs / total	8 byte

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Interfaces	
Number of external antennas	1
Type of electrical connection	
• for external antenna(s)	M8, 4-pin
• for communications interface	M12, 4-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
• at DC	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
Mounting type	2 x M5 screws
Wire length	
• between master and IO-Link device / maximum	20 m

Product features, product functions, product components / general	
Display version	3-color LED
Product feature / silicon-free	Yes

Standards, specifications, approvals

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Certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
Certificate of suitability	
• IECEx	No
MTBF	430 y

accessories

accessories	Various antennas are available

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET 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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