SIEMENS

Data sheet	6GT2821-5AC40

Product type designation	Reader RF250R ASCII
	SIMATIC RF200 READER RF250R W. RS232-INTERFACE (ASCII) WITHOUT ANTENNA IP 65, -25 UP TO +70 DGR/C, 50 X 50 X 30 MM, OPERATING WITH: ANT 8,12,18,30

Suitability for operation	ISO 15693 Transponder (MDS Dxxx), for connecting to PC- and control systems

Wireless frequencies

Operating frequency / Rated value	13.56 MHz

Electrical data

Range / maximum	35 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 property / multitag-capable	No
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	1.2 ms
• for read access / per byte / typical	1.2 ms

Interfaces

Number of external antennas	1
Standard for interfaces / for communication	RS232
Type of electrical connection	
• for external antenna(s)	M8, 4-pin
• for communications interface	M12, 8-pin

Mechanical data

Material	PA6.6
Color	anthracite

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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	
• for DC / Rated value	24 V
• for DC	20.4 ... 28.8 V
Consumed current / for DC / at 24 V	
• typical	0.05 A

Permitted 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
Resistance against vibration	200 m/s²

Design, dimensions and weight

Width	50 mm
Height	30 mm
Depth	50 mm
Net weight	0.06 kg
Mounting type	2 x M5 screws
Cable length	
• with RS 232 interface / maximum	30 m

Product properties, functions, components / general

Display version	3-color LED
Product property / silicon-free	Yes

Standards, specifications, approvals

Certificate of suitability	Wireless according to R&TTE guidelines EN300 330 and EN 301489, FCC, UL/CSA
MTBF	430 y

Accessories

accessories	Various antennas are available

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst

- to website: Industrial communication

  http://www.siemens.com/simatic-net

- to website: Industry Mall

  https://mall.industry.siemens.com

- to website: Information and Download Center

  http://www.siemens.com/automation/net/catalog

- 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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