SIEMENS

Data sheet   6GT2821-1AC10

Product type designation	RF210R reader
	SIMATIC RF200 reader RF210R; RS422 interface (3964R); IP67, - 25 to +70 °C; M18x 71mm; with integrated antenna

Suitability for operation	ISO 15693 Transponder (MDS Dxxx), for connecting to communication modules

Radio frequencies

Operating frequency / Rated value	13.56 MHz
Range / maximum	20 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	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

Standard for interfaces / for communication	RS422
Type of electrical connection	M12, 8-pin

Mechanical data

Material	Brass, nickel-plated / PBT
Color	silver/pastel turquoise
Tightening torque / of the screw for securing the equipment / maximum	20 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	IP67
Shock resistance	EN 60721-3-7 Class 7 M2
Shock acceleration	500 m/s²
Vibrational acceleration	200 m/s²

Design, dimensions and weights

Height	83 mm
Diameter	18 mm
Net weight	0.065 kg
Mounting type	2 nuts M18 x 1 (included in scope of supply)
Wire length	
• for RS 422 interface / maximum	1000 m

Product features, product functions, product components / general

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

Standards, specifications, approvals

Certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
Certificate of suitability	
• IECEx	No
MTBF	505 y

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

last modified: 05/12/2020