SIEMENS

Data sheet   6GT2821-2AC10

Product type designation	RF220R reader
	SIMATIC RF200 READER RF220R; RS422-INTERFACE (3964R); IP 67, -25 UP TO +70 DGR/C; M30 X 71 MM; WITH INTEGRATED ANTENNA.

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

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 feature / 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	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	40 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

Permitted 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 weight

Height	83 mm
Diameter	30 mm
Net weight	0.14 kg
Mounting type	2 x M30 nuts (included in scope of supply)
Wire length	
● for RS 422 interface / maximum	1000 m

Product properties, functions, components / general

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

Standards, specifications, approvals

MTBF	501 y

Accessories

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: 11/28/2017