SIEMENS

Data sheet 6GT2821-1AC32

product type designation

RF210R reader IO-Link
SIMATIC RF200 reader RF210R IO-Link IO-Link interface IP67, -25 to +70 °C; M18x 83 mm; with integrated antenna 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	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	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
data volume / of the address range of the inputs / total	8 byte
data volume / of the address range of the outputs / total	8 byte

Subject to change without notice
© Copyright Siemens

interfaces	
type of electrical connection	M12, 4-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
fastening method	2 nuts M18 x 1 (included in scope of supply)
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	
certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
certificate of suitability	
• IECEx	No
MTBF	505 y

Subject to change without notice
© Copyright Siemens

further information / internet-Links

Internet-Link	
• to website: Selector 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
last modified:	10/20/2020

Subject to change without notice
© Copyright Siemens