

Product type designation

RF220R reader IO-Link

SIMATIC RF200 reader RF220R IO-Link interface V1.1; IP67, -25 to +70 °C; M30x 83 mm; with integrated antenna 32 Byte IO; 230 Kbps



Suitability for operation	ISO 15693 transponder (MDS Dxxx), for connecting to IO-Link Master V1.1
Radio frequencies	
Operating frequency / Rated value	13.56 MHz
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
Electrical data	
Transfer rate / at the point-to-point connection / serial / maximum	230 kbit/s
Transmission time / for user data	
• for write access / per byte / typical	2.4 ms
• for read access / per byte / typical	3.3 ms
Amount of data / of the address area of the inputs / total	32 byte
Amount of data / of the address area of the outputs / total	32 byte

Interfaces	
Standard for interfaces / for communication	IO-Link V1.1
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	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
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/s ²
Vibrational acceleration	200 m/s ²
Design, dimensions and weights	
Height	83 mm
Diameter	30 mm
Net weight	0.14 kg
Mounting type	2 nuts M30 x 1.5 (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

Further information / Internet-Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<https://support.industry.siemens.com/cs/ww/en/view/67384964><http://www.siemens.com/ident/rfid><https://mall.industry.siemens.com><http://www.siemens.com/industry/infocenter><http://automation.siemens.com/bilddb><http://www.siemens.com/cax><https://support.industry.siemens.com>**last modified:**

05/12/2020