

Product type designation

RF210R reader IO-Link

SIMATIC RF200 READER RF210R IO-LINK IO-LINK-INTERFACE;
IP 67, -25 UP TO +70 DGR/C; M18 X 83 MM; WITH INTEGRATED
ANTENNA.



Suitability for operation

ISO 15693 Transponder (MDS Dxxx), for connecting to an IO-Link Master

Wireless frequencies

Operating frequency / Rated value

13.56 MHz

Electrical data

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

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
- for read access / per byte / typical

40 ms

40 ms

Interfaces

Standard for interfaces / for communication

IO-Link

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
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/s ²
Vibrational acceleration	200 m/s ²
Design, dimensions and weight	
Height	83 mm
Diameter	18 mm
Net weight	0.065 kg
Mounting type	2 x M18 nuts (included in scope of supply)
Wire length	
• between master and IO-Link device / maximum	20 m
Product properties, functions, components / general	
Display version	3-color LED
Product feature / silicon-free	Yes
Standards, specifications, approvals	
Certificate of suitability	Wireless according to R&TTE guidelines EN300 330 and EN 301489, FCC, UL/CSA
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
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<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:

10/12/2016