

Product type designation

RF250R reader IO-Link

SIMATIC RF200 Reader RF250R IO-Link interface V1.1; IP65, -25 to +70 °C, 50x 50x 30 mm, without antenna can be operated with: ANT 1, 3, 3 NO, 8, 12, 18, 30; 32 byte IO; 230 Kbps



Suitability for operation	ISO 15693 transponder (MDS Dxxx), for connecting to IO-Link Master V1.1
Wireless frequencies	
Operating frequency / Rated value	13.56 MHz
Range / maximum	60 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
Interfaces	
Number of external antennas	1
Standard for interfaces / for communication	IO-Link V1.1

Type of electrical connection	
<ul style="list-style-type: none"> • for external antenna(s) • for communications interface 	M8, 4-pin M12, 4-pin

Mechanical data

Material	PA6.6
Color	anthracite
Tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm

Supply voltage, current consumption, power loss

Supply voltage	
<ul style="list-style-type: none"> • at DC / Rated value • at DC 	24 V 20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical 	0.05 A

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-20 ... +70 °C -25 ... +80 °C -25 ... +80 °C
Protection class IP	IP65
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

Width	50 mm
Height	30 mm
Depth	50 mm
Net weight	0.06 kg
Mounting type	2 x M5 screws
Wire length	
<ul style="list-style-type: none"> • 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	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
MTBF	430 y

Accessories

accessories

Various antennas are available

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>

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