

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
Radio 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
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	
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
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 weights	
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 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	430 y

accessories	
accessories	Various antennas are available

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> • 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:	05/15/2020