

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, 3NO, 8, 12, 18, 30; 32 byte IO; 230 Kbit/s

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	3.3 ms
• for read access / per byte / typical	2.4 ms
data volume / of the address range of the inputs / total	32 byte
data volume / of the address range 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	
• for external antenna(s)	M8, 4-pin
• for communications interface	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 / at DC	
• rated value	24 V
•	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	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
fastening method	2 x M5 screws
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	430 a
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	124.25 kg
• during manufacturing	11.24 kg
• during operation	112.71 kg
• after end of life	0.3 kg
accessories	
accessories	Various antennas are available
further information / internet links	
internet link	
• to web page: selection aid 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:

1/15/2024 