

product type designation



RF240R reader IO-Link

SIMATIC RF200 reader RF240R IO-Link interface V1.1; IP67, -25 to +70 °C; 50x 50x 30 mm; with integrated antenna 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	65 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

standard for interfaces / for communication	IO-Link V1.1
type of electrical connection	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	IP67
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	500 m/s²
vibrational acceleration	200 m/s²

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	
reference code • according to IEC 81346-2:2019	BYB	
standards, specifications, approvals / Environmental Product Declaration		
Environmental Product Declaration	Yes	
global warming potential [CO2 eq] • total • during manufacturing • during operation • after end of life	124.25 kg 11.24 kg 112.71 kg 0.3 kg	
further information / internet links		
internet link • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to web page: RFID country approval • to web page: identification and localization systems • to web page: SiePortal • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/rfid-approvals https://www.siemens.com/ident https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com	
security information		
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