

### product type designation

### RF210R reader IO-Link

SIMATIC RF200 reader RF210R IO-Link IO-Link interface IP67, -25 to +70 °C; M18x 83 mm; with integrated antenna 8 Byte IO; 38.4 Kbit/s.



### suitability for operation

ISO 15693 transponder (MDS Dxxx), for connecting to IO-Link Master V1.0

### radio frequencies

operating frequency / rated value	13.56 MHz
range / maximum	20 mm; Range is dependent on transponder type: observe <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
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	38.4 kbit/s
transmission time / for user data	
• for write access / per byte / typical	40 ms
• for read access / per byte / typical	40 ms
data volume / of the address range of the inputs / total	8 byte
data volume / of the address range of the outputs / total	8 byte

### interfaces

standard for interfaces / for communication	IO-Link V1.0
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
•	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	
height	83 mm
diameter	18 mm
net weight	0.065 kg
fastening method	2 nuts M18 x 1 (included in scope of supply)
wire length <ul style="list-style-type: none"> <li>• between master and IO-Link device / maximum</li> </ul>	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 <ul style="list-style-type: none"> <li>• IECEx</li> </ul>	No
MTBF	505 a
reference code <ul style="list-style-type: none"> <li>• according to IEC 81346-2:2019</li> </ul>	BYB
further information / internet links	
internet link <ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: RFID country approval</li> <li>• to web page: identification and localization systems</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a> <a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
security information	
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Approvals / Certificates	
General Product Approval	EMV



[Declaration of Conformity](#)



[KC](#)

Radio Equipment Type Approval Certificate			Environment
<a href="#">Miscellaneous</a>	<a href="#">Miscellaneous</a>	<a href="#">Miscellaneous</a>	<a href="#">Confirmation</a>

last modified:

8/18/2024