

Product type designation

RF250R reader IO-Link

SIMATIC RF200 Reader RF250R IO-link-interface V1.1; IP67, -25 up to +70°C; 50x 50x 30 mm, without antenna can be used with: ANT 3,8,12,18,30 32 Byte IO; 230 kBit/s



Wireless frequencies

| | |
|-----------------------------------|-----------|
| Operating frequency / Rated value | 13.56 MHz |
|-----------------------------------|-----------|

Electrical data

| | |
|---|--|
| 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 |
| Transfer rate / at the point-to-point connection / serial / maximum | 230 kbit/s |
| Transmission time / for user data | |
| <ul style="list-style-type: none"> • for write access / per byte / typical • for read access / per byte / typical | <p>2.4 ms</p> <p>3.3 ms</p> |

Interfaces

| | |
|---|------------------------------------|
| Number of external antennas | 1 |
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for external antenna(s) • for communications interface | <p>M8, 4-pin</p> <p>M12, 4-pin</p> |

| 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 | 24 V |
| <ul style="list-style-type: none"> • at DC | 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 | -20 ... +70 °C |
| <ul style="list-style-type: none"> • during storage | -25 ... +80 °C |
| <ul style="list-style-type: none"> • 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 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 | Wireless according to R&TTE guidelines EN300 330 and EN 301489, FCC, UL/CSA |
| 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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