

Product type designation

RF290R reader

SIMATIC RF200 READER RF290R WITHOUT ANTENNA; WITH SERIAL INTERFACE RS 232/RS 422 SWITCHABLE FOR CONNECT. ANTENNAS ANT D2; ANT D5; ANT D6; ANT D10



Suitability for operation

ISO 15693 Transponder (MDS Dxxx), for connecting to communication modules and PC systems

Wireless frequencies

Operating frequency / Rated value

13.56 MHz

Electrical data

Range / maximum

650 mm; Range adjustable in reader via transmission power, 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 property / multitag-capable

Yes

Transfer rate / at the point-to-point connection / serial / maximum

115.2 kbit/s

Transmission time / for user data

- for write access / per byte / typical
- for read access / per byte / typical

0.6 ms

0.6 ms

Interfaces

Number of external antennas

1

Standard for interfaces / for communication

RS422/RS232

Type of electrical connection

- for external antenna(s)
- for supply voltage
- for communications interface
- at the digital inputs/outputs

M12, 8-pin

TNC

M12, 8-pin

M12, 8-pin

M12, 4-pin, female connector

Number of digital inputs	1
Number of digital outputs	1
Mechanical data	
Material	aluminum
Color	silver/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	
• for DC / Rated value	24 V
• for DC	21.6 ... 26.4 V
Consumed current / for DC / at 24 V	
• typical	0.4 A
• maximum	0.6 A
Permitted ambient conditions	
Ambient temperature	
• during operation	-20 ... +55 °C
• during storage	-25 ... +85 °C
• during transport	-25 ... +85 °C
Protection class IP	IP65
Shock resistance	EN 60721-3-7 Class 7 M2
Shock acceleration	300 m/s ²
Resistance against vibration	20 m/s ²
Design, dimensions and weight	
Width	200 mm
Height	80 mm
Depth	140 mm
Net weight	1.8 kg
Mounting type	4 x M6 screws
Cable length	
• of antenna cable / minimum	3.3 m
• of antenna cable / maximum	25 m
• with RS 232 interface / maximum	30 m
• for RS 422 interface / maximum	1000 m
Product properties, functions, components / general	
Display version	4 LEDs
Standards, specifications, approvals	
Certificate of suitability	CE, FCC, IC (Canada)

MTBF	18 y
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Accessories

accessories	Various antennas are available, antenna combiners, antenna multiplexer, mounting set for top-hat rail mounting
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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	<ul style="list-style-type: none">http://www.siemens.com/snsthttp://www.siemens.com/simatic-nethttps://mall.industry.siemens.comhttp://www.siemens.com/automation/net/cataloghttp://automation.siemens.com/bilddbhttp://www.siemens.com/caxhttps://support.industry.siemens.com

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