

### Product type designation

### RF220R reader

SIMATIC RF200 READER RF220R; RS422-INTERFACE (3964R); IP 67, -25 UP TO +70 DGR/C; M30 X 71 MM; WITH INTEGRATED ANTENNA.



### Suitability for operation

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

### Wireless frequencies

#### Operating frequency / Rated value

13.56 MHz

### Electrical data

#### Range / maximum

35 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 property / multitag-capable

No

#### 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

#### Standard for interfaces / for communication

RS422

#### Type of electrical connection

M12, 8-pin

### Mechanical data

#### Material

Brass, nickel-plated / PBT

#### Color

silver/pastel turquoise

#### Tightening torque / of the screw for securing the equipment / maximum

40 N·m

Mounting distance / relating to metal surfaces / recommended / minimum	0 mm
<b>Supply voltage, current consumption, power loss</b>	
Supply voltage	
• for DC / Rated value	24 V
• for DC	20.4 ... 28.8 V
Consumed current / for DC / at 24 V	
• typical	0.05 A
<b>Permitted ambient conditions</b>	
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/s <sup>2</sup>
Resistance against vibration	200 m/s <sup>2</sup>
<b>Design, dimensions and weight</b>	
Height	83 mm
Diameter	30 mm
Net weight	0.14 kg
Mounting type	2 x M30 nuts (included in scope of supply)
Cable length	
• for RS 422 interface / maximum	1000 m
<b>Product properties, functions, components / general</b>	
Display version	3-color LED
Product property / silicon-free	Yes
<b>Standards, specifications, approvals</b>	
Certificate of suitability	Wireless according to R&TTE guidelines EN300 330 and EN 301489, FCC, UL/CSA
MTBF	501 y
<b>Further Information / Internet Links</b>	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx Download Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>

- to website: Industry Online Support

<https://support.industry.siemens.com>

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