

### Product type designation

### RF280R ASCII reader

SIMATIC RF300 Reader RF280R (ASCII/Scanmode) RS232 interface IP67, -10 to +60 °C, 160x 80x 41 mm with integrated antenna



### Suitability for operation

ISO 15693 transponder (MDS Dxxx), for connecting to PC and control systems (incl. Scan Mode)

### Radio frequencies

Operating frequency / Rated value	13.56 MHz
Range / maximum	200 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	115.2 kbit/s
Transmission time / for user data	
• for write access / per byte / typical	1.2 ms
• for read access / per byte / typical	1.2 ms

### Interfaces

Standard for interfaces / for communication	RS232
Type of electrical connection	M12, 8-pin

- for communications interface

M12, 8-pin

### Mechanical data

Material	PA 12
Color	Ti gray
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"> <li>• at DC / Rated value</li> </ul>	24 V
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> <li>• typical</li> </ul>	0.13 A

### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +70 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +85 °C
Protection class IP	IP67
Shock resistance	EN 60721-3-7 Class 7 M2
Shock acceleration	500 m/s <sup>2</sup>
Vibrational acceleration	200 m/s <sup>2</sup>

### Design, dimensions and weights

Width	80 mm
Height	41 mm
Depth	160 mm
Net weight	1.6 kg
Mounting type	4 x M5 screws
Wire length	
<ul style="list-style-type: none"> <li>• with RS 232 interface / maximum</li> </ul>	30 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	173 y

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>

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