

### Product type designation

### RF310R IQ-Sense reader

SIMATIC RF300 READER RF310R WITH IQ-SENSE INTERFACE  
IP 67, -25 TO +70 DGR/C, 55X75X30MM, MAX. DISTANCE: 30 MM  
(DEPENDING ON MDS)



Suitability for operation	RF300 transponder, for connecting to IQ-Sense
<b>Wireless frequencies</b>	
Operating frequency / Rated value	13.56 MHz
<b>Electrical data</b>	
Range / maximum	35 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	RF300-specific
Transfer rate / with radio transmission / maximum	106 kbit/s
Product feature / multitag-capable	No
Transfer rate / at the point-to-point connection / serial / maximum	0.4 kbit/s
Transmission time / for user data	
• for write access / per byte / typical	25 ms
• for read access / per byte / typical	20 ms
<b>Interfaces</b>	
Standard for interfaces / for communication	IQ-Sense
Type of electrical connection	M12, 4-pin

Mechanical data	
Material	PA 12
Color	anthracite
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> <li>• at DC</li> </ul>	24 V 20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> <li>• typical</li> </ul>	0.04 A

Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	-25 ... +70 °C -40 ... +85 °C -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 weight	
Width	55 mm
Height	30 mm
Depth	75 mm
Net weight	0.2 kg
Mounting type	4 x M5 screws

Product properties, functions, components / general	
Display version	-

Standards, specifications, approvals	
Certificate of suitability	Wireless according to R&TTE guidelines EN 300 330, EN 301489, CE, FCC, UL/CSA
MTBF	23 y

Further Information / Internet Links	
Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>  <a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>  <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>  <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>  <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>

- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/cax>

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

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