

Product type designation

RF285R reader

SIMATIC RF200 reader RF285R Without antenna; with serial interface RS 232; for connection of the antennas ANT D1, D2, D5, D6



Suitability for operation	ISO 15693 Transponder (MDS Dxxx), for connecting to PC systems
Radio frequencies	
Operating frequency / Rated value	13.56 MHz
Range / maximum	550 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 feature / multitag-capable	Yes
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	0.6 ms
• for read access / per byte / typical	0.6 ms
Interfaces	
Number of external antennas	1

Standard for interfaces / for communication	RS232
Type of electrical connection	M12, 8-pin
<ul style="list-style-type: none"> • for external antenna(s) 	TNC
<ul style="list-style-type: none"> • for supply voltage 	M12, 8-pin
<ul style="list-style-type: none"> • for communications interface 	M12, 8-pin

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	
<ul style="list-style-type: none"> • at DC / Rated value 	24 V
<ul style="list-style-type: none"> • at DC 	21.6 ... 26.4 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical 	0.4 A
<ul style="list-style-type: none"> • maximum 	0.5 A

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-20 ... +55 °C
<ul style="list-style-type: none"> • during storage 	-25 ... +85 °C
<ul style="list-style-type: none"> • during transport 	-25 ... +85 °C
Protection class IP	IP65
Shock resistance	EN 60721-3-7 Class 7 M2
Shock acceleration	300 m/s ²
Vibrational acceleration	20 m/s ²

Design, dimensions and weights

Width	200 mm
Height	80 mm
Depth	140 mm
Net weight	1.8 kg
Mounting type	4 M4 screws, DIN rail 35 mm, S7-300 mounting rail
Wire length	
<ul style="list-style-type: none"> • of antenna cable / minimum 	3.3 m
<ul style="list-style-type: none"> • of antenna cable / maximum 	25 m
<ul style="list-style-type: none"> • with RS 232 interface / maximum 	30 m

Product features, product functions, product components / general

Display version	4 LEDs
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Standards, specifications, approvals

Certificate of suitability	CE, FCC, IC (Canada)
Certificate of suitability <ul style="list-style-type: none">• IECEx	No
MTBF	18 y

accessories

accessories	Various antennas available, antenna combiner, mounting set for DIN 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">https://support.industry.siemens.com/cs/ww/en/view/67384964http://www.siemens.com/ident/rfidhttps://mall.industry.siemens.comhttp://www.siemens.com/industry/infocenterhttp://automation.siemens.com/bilddbhttp://www.siemens.com/caxhttps://support.industry.siemens.com
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