

Product type designation

Reader RF350R (EX)

SIMATIC RF300; Reader RF350R (GEN2); RS422 interface (3964R); Without antenna IP65, -25 to +70 °C, 75x 75x 41 mm, can be operated with: ANT 1, 3, 3 NO, 8, 12, 18, 30 Special version ATEX (Zone 2)



Figure similar

Suitability for operation

RF300, ISO 15693 and MOBY E transponder, for connecting to communication modules, EX: II 3 G Ex ec [ic] IIB T4 Gc, II 3 D Ex tc [ic IIB Gc] IIIC T80 °C Dc

Radio frequencies

Operating frequency / Rated value	13.56 MHz
Range / maximum	140 mm; Range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
Protocol / with radio transmission	RF300 specific, ISO 15693, ISO 18000-3, ISO 14443
Transfer rate / with radio transmission / maximum	106 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	0.13 ms
• for read access / per byte / typical	0.13 ms

Interfaces	
Number of external antennas	1
Standard for interfaces / for communication	RS422
Type of electrical connection	
<ul style="list-style-type: none"> • for external antenna(s) • for communications interface 	M8, 4-pin 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"> • at DC / Rated value • at DC 	24 V 20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical 	0.06 A

Ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-25 ... +70 °C -40 ... +85 °C -40 ... +85 °C
Protection class IP	IP64
Shock resistance	EN 60721-3-7 Class 7 M2
Shock acceleration	500 m/s ²
Vibrational acceleration	200 m/s ²

Design, dimensions and weights	
Width	75 mm
Height	41 mm
Depth	75 mm
Net weight	0.25 kg
Mounting type	2 x M5 screws
Wire length	
<ul style="list-style-type: none"> • of antenna cable / fixed value • for RS 422 interface / maximum 	3 m 1000 m

Product features, product functions, product components / general	
Display version	5-color LED
Product feature / silicon-free	Yes

Standards, specifications, approvals

Certificate of suitability	Radio acc. to R&TTE guidelines EN 300 330, EN 301489, CE, FCC, cULus, ATEX: EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN60079-31:2014, IEC Ex: IEC 60079-0:2011, IEC 60079-31:2013, EN 60079-7:2015, UL HAZ.LOC: UL 60079-0, CSA C22.2 NO.60079-0, UL 60079-7, CSA C22.2 NO. 60079-7, UL 60079-31, CSA C22.2 NO. 60079-31
Certificate of suitability	
• IECEx	Yes
MTBF	260 y

accessories

accessories	Various antennas are available
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Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
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