SIMATIC RF200

Product Data Sheet

6GT2821-4AC10

RF240R RS422 RFID Reader

RADIO FREQUENCY	AIR-INTERFACE STANDARDS	MAXIMUM READ/WRITE DISTANCE	SERIAL INTERFACE
13.56 MHz	**ISO 15693; ISO 18000-3**	**65 mm; transponder-dependent**	**RS422**

Siemens 6GT2821-4AC10 is the SIMATIC RF200 RF240R reader with an RS422 interface and 3964R protocol. Its 13.56 MHz air interface supports ISO 15693 and ISO 18000-3 transponders, with a documented read/write distance up to 65 mm depending on the transponder. An eight-pin M12 connector carries the electrical interface.

01 TECHNICAL DATA

Radio frequency	13.56 MHz
Air-interface standards	ISO 15693; ISO 18000-3
Maximum read/write distance	65 mm; transponder-dependent
Serial interface	RS422
Serial protocol	3964R
Serial data rate	115.2 kbit/s
Air-interface data rate	26.5 kbit/s
Read/write time per byte	0.6 ms
Electrical connector	M12, 8-pin
Rated supply	24 V DC

Siemens 6GT2821-4AC10 official product data; applicable specification pages.

02 ADDITIONAL PRODUCT DATA

Permitted supply	20.4 to 28.8 V DC
Typical supply current	0.05 A
Degree of protection	IP67
Minimum adjacent-reader distance	120 mm
Maximum RS422 cable	1000 m

03 PRODUCT FUNCTION

The reader communicates at 115.2 kbit/s over RS422 and has a listed 26.5 kbit/s air-interface rate, with a 0.6 ms read/write time per byte. It takes a nominal 24 V DC supply within 20.4 to 28.8 V and draws a typical 0.05 A. The IP67 housing and three-color status indication support installation at the identification point.

04 SYSTEM COMPATIBILITY

Choose a supported ISO transponder and check the documented operating distance for that specific tag. Keep at least 120 mm between adjacent readers and observe the mounting instructions for metal surroundings. The stated 65 mm maximum is transponder-dependent and does not guarantee that distance for every installation.

05 REFERENCE

Siemens 6GT2821-4AC10 official product data; applicable specification pages.

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