

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS SIMATIC S7

6GT2801-3AB10

INDUSTRIAL RFID READER

Used with the applicable SIMATIC RF300 systems configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official product documentation

Product type designation

RF380R reader

SIMATIC RF300 READER RF380R (RF300+ISO15693) RS422/232-INTERFACE (3964R) IP 67, -10 UP TO +60 DGR/C, 160 X 80 X 41 MM WITH INTEGRATED ANTENNA



Suitability for operation

RF300 and ISO 15693 Transponder (MDS Dxxx), for connecting to communication modules and PC systems

Wireless frequencies

Operating frequency / Rated value

13.56 MHz

Electrical data

Range / maximum

200 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

RF300-specific, ISO 15693, ISO 18000-3

Transfer rate / with radio transmission / maximum

106 kbit/s

Product feature / multitag-capable

No

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
- for read access / per byte / typical

0.13 ms

0.13 ms

Interfaces

Standard for interfaces / for communication

RS422/RS232

Type of electrical connection	M12, 8-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	
• at DC / Rated value	24 V
• at DC	20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
• typical	0.16 A
Permitted ambient conditions	
Ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
Protection class IP	IP67
Shock resistance	EN 60721-3-7, Class 7 M2
Shock acceleration	500 m/s ²
Vibrational acceleration	200 m/s ²
Design, dimensions and weight	
Width	80 mm
Height	41 mm
Depth	160 mm
Net weight	0.6 kg
Mounting type	4 x M5 screws
Wire length	
• with RS 232 interface / maximum	30 m
• for RS 422 interface / maximum	1000 m
Product properties, functions, components / general	
Display version	3-color LED
Product feature / silicon-free	Yes
Standards, specifications, approvals	
Certificate of suitability	Wireless according to R&TTE guidelines EN 300 330, EN 301489, CE, FCC, UL/CSA, Ex: II 3G Ex nC IIB T5
MTBF	109 y
Further Information / Internet Links	
Internet-Link	