SIEMENS

Data sheet   **6GT2801-3BA10-0AX2**

product type designation	**Reader RF380R (EX)**
	SIMATIC RF300 Reader RF380R (GEN2) RS422/232 interface (3964R) IP67, -25 to +70 °C, 160x 80x 41 mm with integrated antenna special variant ATEX (Zone 3G/3D) and IECEx (Gc/Dc) for Zone 2/22 .

Figure similar

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

radio frequencies

operating frequency / rated value	13.56 MHz
range / maximum	200 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

standard for interfaces / for communication	RS422/RS232
type of electrical connection	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 / at DC	
● rated value	24 V
●	20.4 ... 28.8 V
consumed current / at DC	
● at 24 V / typical	0.15 A

ambient conditions

ambient temperature	
● during operation	-25 ... +70 °C
● during storage	-40 ... +85 °C
● during transport	-40 ... +85 °C
protection class IP	IP64
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	500 m/s²
vibrational acceleration	200 m/s²

design, dimensions and weights	
width	80 mm
height	41 mm
depth	160 mm
net weight	0.6 kg
fastening method	4 x M5 screws
wire length	
● with RS 232 interface / maximum	30 m
● for RS 422 interface / maximum	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
● for IECEx / as marking	EX: II 3 G Ex ec IIB T4 Gc, II 3 D Ex tc IIIC T80 °C Dc
MTBF	173 a
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
● total	124.25 kg
● during manufacturing	11.24 kg
● during operation	112.71 kg
● after end of life	0.3 kg
further information / internet links	
internet link	
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval	EMV	For use in hazardous locations
UKCA CE EG-Konf.	KC	IECEx Ex ATEX CCC-Ex

For use in hazardous locations	Radio Equipment Type Approval Certificate	Environment

UL ATEX [other radio approvals](#) EPD

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