

product type designation



RF120C communication module

RFID communication module RF120C for SIMATIC S7-1200; 1 reader connectable; RS-422 or RS232.

suitability for operation

SIMATIC S7-1200 together with RF200/300/1000, MV300/400/500, MOBY D/U

transfer rate

transfer rate / at the point-to-point connection / serial / maximum 115.2 kbit/s

interfaces

design of the interface / for point-to-point connection RS422/RS232
 number of readers / connectable 1
 type of electrical connection
 • of the backplane bus S7-1200 backplane bus
 • for supply voltage Screw terminals
 design of the interface / to the reader / for communication sub-D, 9-pin, female

mechanical data

material Xantar MX 1094
 color Ti-grey 24L01
 tightening torque / of the screw for securing the equipment / maximum 0.45 N·m

supply voltage, current consumption, power loss

supply voltage
 • at DC / rated value 24 V
 • at DC 20 ... 30 V
 consumed current / at DC / at 24 V
 • without connected devices / typical 0.03 A
 • with connected devices / maximum 1 A

ambient conditions

ambient temperature
 • during operation 0 ... 55 °C
 • during storage -40 ... +70 °C
 • during transport -40 ... +70 °C
 protection class IP IP20
 shock resistance According to IEC 61131-2
 shock acceleration 300 m/s²
 vibrational acceleration 100 m/s²

design, dimensions and weights

width 30 mm
 height 100 mm
 depth 75 mm
 net weight 0.15 kg
 fastening method S7-1200 rack
 wire length / for RS 422 interface / maximum 1000 m

product features, product functions, product components / general

display version	4 LEDs for reader connection, 1 LED for device status
product function / addressable transponder file handler protocol / is supported	No
• S7 communication	Yes

product functions / management, configuration, engineering

type of programming	ID profile, library with functions
type of computer-switched communication	acyclic communication

standards, specifications, approvals

certificate of suitability	CE, FCC, cULus, KCC, C-Tick, FM
certificate of suitability	Yes
• IECEx	Ex: II 3G Ex nAA IIC T4 Gc
• for IECEx / as marking	
MTBF	196 y

further information / internet-Links

Internet-Link	
• to web page: selection aid TIA 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

security information

security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com . (V3.4)
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