

Product type designation

RF185C communication module

RFID Communication Module RF185C for Profinet, Ethernet, 1 Reader can be connected



Suitability for operation	IE / PN network together with RF200/300 MV400/500
Transfer rate	
Transfer rate / for Industrial Ethernet	10 ... 100 Mbit/s
Transfer rate / at the point-to-point connection / serial / maximum	921.6 kbit/s
Interfaces	
Design of the interface / for point-to-point connection	RS422/RS232
Number of readers / connectable	1
Type of electrical connection	
• of Industrial Ethernet interface	M12, d-coded
• for supply voltage	M12, L-coded
Design of the interface / to the reader / for communication	M12, 8-pin
Number of digital inputs	0
Number of digital outputs	0
Mechanical data	
Material	Thermoplastic (Valox 467, fiberglass reinforced)
Color	Al-grey 2001

Tightening torque / of the screw for securing the equipment / maximum	3 N·m
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Supply voltage, current consumption, power loss

Supply voltage	
<ul style="list-style-type: none"> • at DC / Rated value 	24 V
<ul style="list-style-type: none"> • at DC 	20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • without connected devices / typical 	0.13 A
<ul style="list-style-type: none"> • with connected devices / maximum 	4 A
Continuous current / for loop-through to further bus nodes / at DC / maximum	12 A

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +55 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
Protection class IP	IP67
Shock resistance	according to IEC 60068-2-27 and IEC 60068-2-6
Shock acceleration	300 m/s ²
Vibrational acceleration	40 m/s ²

Design, dimensions and weights

Width	60 mm
Height	45 mm
Depth	165 mm
Net weight	0.26 kg
Mounting type	2 M4 screws
Wire length / for RS 422 interface / maximum	1000 m

Product features, product functions, product components / general

Display version	2 LEDs per reader connection, 3 LEDs for device status, 2 LEDs for Ethernet ports
Protocol / is supported / Media Redundancy Protocol (MRP)	Yes
Product function / of the PROFINET IO device / is supported / H-Sync forwarding	No
Product function / transponder file handler can be addressed	No
Protocol / is supported	
<ul style="list-style-type: none"> • LLDP 	Yes
<ul style="list-style-type: none"> • PROFINET IO protocol 	Yes
<ul style="list-style-type: none"> • TCP/IP 	Yes
<ul style="list-style-type: none"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • SNMP v2 	No

• SNMP v3	No
• DCP	Yes
• EtherNet/IP protocol	No
• OPC UA	Yes
Product feature / silicon-free	Yes

Product functions / management, configuration, engineering	
Type of parameterization	HSP, TO, WBM
Type of programming	ID profile, library with functions, FB 45, OPC UA
Type of computer-mediated communication	Non-cyclic communication, TCP/IP

Standards, specifications, approvals	
Certificate of suitability	
• IECEx	No
MTBF	70 y

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

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)

last modified: 05/12/2020