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product type designation	**RF186C communication module**
	RFID communication module RF186C for PROFINET, Ethernet, EtherNet/IP, 2 readers connectable

suitability for operation	IE / PN network together with RF200/300/1000 MV300/400/500
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	2
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
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 / without connected devices / typical	0.13 A
● Consumed current / from supply voltage 1L+ / maximum	4 A
continuous current / for loop-through to further bus nodes / at DC / maximum	12 A
ambient conditions	
ambient temperature	
● during operation	-25 ... +55 °C
● during storage	-40 ... +70 °C
● 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/s²
vibrational acceleration	40 m/s²
design, dimensions and weights	
width	60 mm
height	45 mm

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depth	165 mm
net weight	0.26 kg
fastening method	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 / addressable transponder file handler	No
protocol / is supported	
● LLDP	Yes
● PROFINET IO protocol	Yes
● TCP/IP	Yes
● SNMP v1	Yes
● SNMP v2	No
● SNMP v3	No
● DCP	Yes
● EtherNet/IP protocol	Yes
● 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, XML
type of computer-switched communication	Acyclic communication, TCP/IP, implicit/explicit messaging

standards, specifications, approvals	
certificate of suitability	CE, FCC, cULus, PNO: Conformance Class B, Netload Class (SL1) III, OPC UA: Embedded UA Server Profile
certificate of suitability	
● IECEx	No
MTBF	70 a

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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