

Product type designation

RF188CI communication module

RFID communication module RF188CI for PROFINET, Ethernet, 4 readers can be connected, DI/DO interface



Suitability for operation

IE / PN network together with RF200/300 MV400/500 and digital IO

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	4
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
Type of electrical connection / at the digital inputs/outputs	M12, A-coded, for connection of IO-Link expansion modules
Number of digital inputs	8
Number of digital outputs	8

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	
<ul style="list-style-type: none"> • at DC / Rated value • at DC 	24 V 20.4 ... 28.8 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • without connected devices / typical • with connected devices / maximum 	0.13 A 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 • during storage • during transport 	-25 ... +55 °C -40 ... +70 °C -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 • PROFINET IO protocol 	Yes Yes

• TCP/IP	Yes
• SNMP v1	Yes
• 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	65 y

accessories

accessories	IO-Link modules K20 for digital IO expansion
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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

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