

Product type designation

RF180C communication module

RFID communication module RF180C for PROFINET; 2 readers can be connected; without connection block for PROFINET



Suitability for operation

PROFINET network together with RF200/300/600, MV400, MOBY D/E//U

Transmission rate

| | |
|---------------------------------------------------------------------|-------------------|
| Transfer rate / for Industrial Ethernet | 10 ... 100 Mbit/s |
| Transfer rate / at the point-to-point connection / serial / maximum | 115.2 kbit/s |

Interfaces

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|-------------------------------------------------------------|-------------------------------------|
| Design of the interface / for point-to-point connection | RS422 |
| Number of readers / connectable | 2 |
| Type of electrical connection | |
| • of Industrial Ethernet interface | (according to the connection block) |
| • for supply voltage | (according to the connection block) |
| Design of the interface / to the reader / for communication | M12, 8-pin |

Mechanical data

| | |
|----------|--------------------------------------------------|
| Material | Thermoplastic (Valox 467, fiberglass reinforced) |
| Color | IP Basic 714 |

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|-----------------------------------------------------------------------|--------------------------------------------------------|
| 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 ... 30 V |
| Consumed current / at DC / at 24 V | |
| • without connected devices / typical | 0.1 A |
| • with connected devices / maximum | 1.1 A |
| Permitted ambient conditions | |
| Ambient temperature | |
| • during operation | 0 ... 60 °C |
| • during storage | -40 ... +70 °C |
| • during transport | -40 ... +70 °C |
| Protection class IP | IP67 |
| Shock resistance | According to IEC 61131-2 |
| Shock acceleration | 300 m/s ² |
| Vibrational acceleration | 100 m/s ² |
| Design, dimensions and weight | |
| Width | 60 mm |
| Height | 30 mm |
| Depth | 210 mm |
| Net weight | 0.21 kg |
| Mounting type | 2 x M5 screws |
| Wire length / for RS 422 interface / maximum | 1000 m |
| Product properties, functions, components / general | |
| Display version | 4 LEDs per reader connection, 4 LEDs for device status |
| Protocol / is supported / Media Redundancy Protocol (MRP) | No |
| Product function / transponder file handler can be addressed | Yes |
| Protocol / is supported | |
| • LLDP | Yes |
| • PROFINET IO protocol | Yes |
| • TCP/IP | No |
| • SNMP v1 | Yes |
| • SNMP v2 | No |
| • SNMP v3 | No |
| • DCP | Yes |
| • EtherNet/IP protocol | No |
| Type of parameterization | GSDML |

| | |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of programming | FB 45, FB 55, ID profile, library with functions |
| Type of computer-mediated communication | acyclic communication |
| Standards, specifications, approvals | |
| Certificate of suitability | CE, FCC, cULus, PNO: Conformance Class B |
| MTBF | 121 y |
| Accessories | |
| accessories | Connection block M12 d-coded, 7/8" 5-pin or push-pull |
| Further Information / Internet Links | |
| Internet-Link | <ul style="list-style-type: none"> • 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 |
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