

XPSMF60CPU22

Preventa safety PLC CPU with user logic 500 kB application/500 KB data memory



Main

Range of product	Preventa Safety automation
Product or component type	Preventa safety PLC CPU
Safety module name	XPS MF60
Safety module application	CPU
Safety use category	Category 4 maximum conforming to EN 954-1 Performance level e conforming to EN/ISO 13849-1 SIL 3 conforming to EN/IEC 61508
Standards	DIN V 0801 DIN V 19250 EN 50156 pending IEC 61131
Structure type	10BASE-T/100BASE-TX, Modbus TCP/IP 10BASE-T/100BASE-TX, safe Ethernet

Complementary

[Us] rated supply voltage	5 V DC/1 A) 3.3 V DC/1.5 A)
Clock	With, supplied by backup capacitor for 1 week following loss of supply
Response time	Depending on size of application
Memory description	User logic 500 kB for application User logic 500 kB for data
Communication port protocol	Modbus RTU with 1 SUB-D 9 port(s), RS485 Modbus TCP/IP with 4 RJ45 port(s), transmission rate: 100 Mbps, 10 Mbps, medium: dual twisted pair cable, category 5D or better Safe Ethernet with 4 RJ45 port(s), transmission rate: 100 Mbps, 10 Mbps, medium: dual twisted pair cable, category 5D or better
Exchange mode	Half duplex, full duplex, autonegotiation
Method of access	Slave, Modbus RTU Slave, Modbus TCP/IP
Function available	Control of addressing of transmitted and received messages, safe Ethernet Control of data reception time, safe Ethernet Control of data sequence, safe Ethernet Control of transmitted data, safe Ethernet Diagnostics on communication, safe Ethernet Diagnostics on CPU, safe Ethernet Diagnostics on inputs and outputs Diagnostics on operating voltage and temperature, safe Ethernet Diagnostics on user program, safe Ethernet
Number of addresses	122 Modbus RTU
Concept	Transparent Ready, Modbus TCP/IP
Web server	Class A10, Modbus TCP/IP
Web services	Modbus identification request, Modbus TCP/IP Modbus TCP/IP messaging (reading/writing of data words), Modbus TCP/IP Modbus TCP/IP server, Modbus TCP/IP Standard 502, Modbus TCP/IP
Product weight	0.28 kg

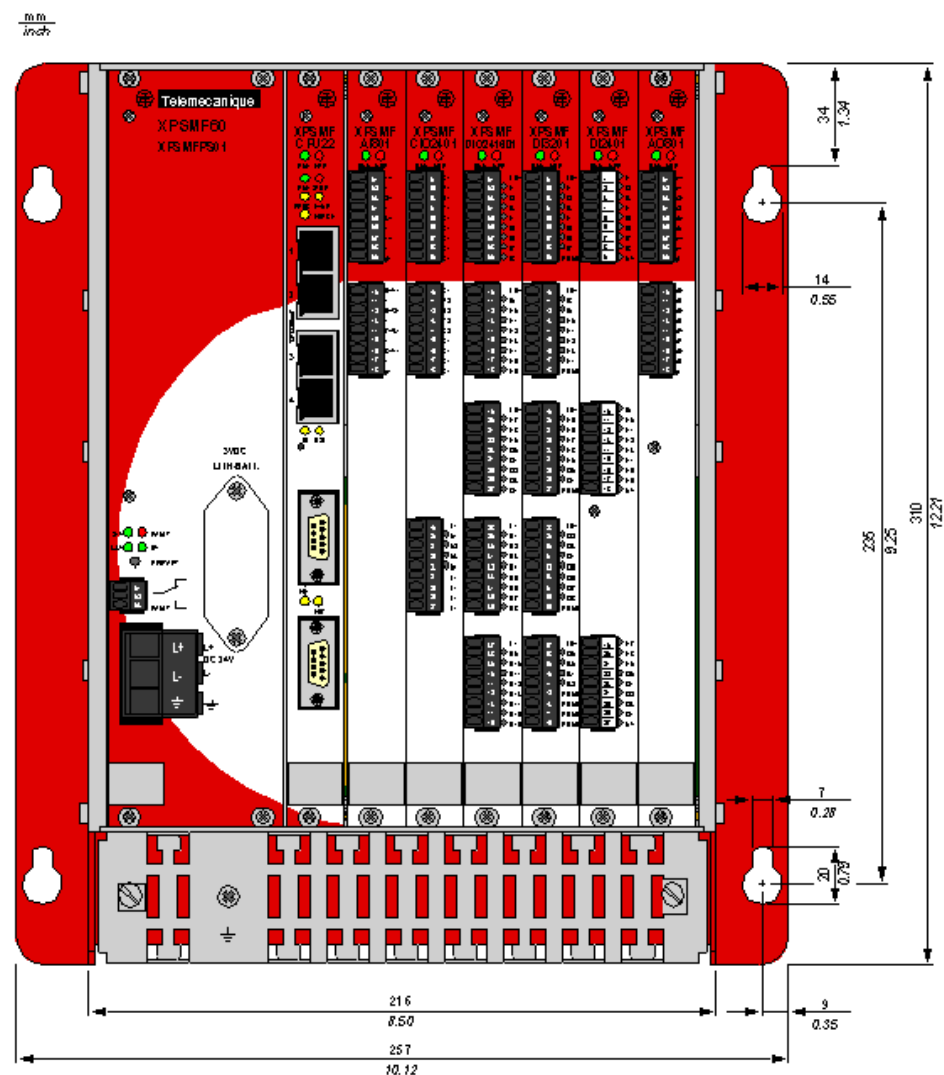
Environment

IP degree of protection	IP20 with covering plate on unused in rack I/O card slots
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C conforming to EN/IEC 61131-2
Relative humidity	95 % (supply not connected)
Operating altitude	< 2000 m

Pollution degree	2
Class of protection against electric shock	Class II conforming to IEC 61131-2
Electromagnetic compatibility	EN/IEC 61131-2
Vibration resistance	1 gn, 10...150 Hz conforming to EN 61131-2 (10 cycles per axis)
Shock resistance	15 gn for 11 ms (2 cycles per axis), conforming to EN 61131-2
Resistance to electrostatic discharge	4 kV contact conforming to EN/IEC 61000-4-2 8 kV on air conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m (26 MHz...1 GHz), amplitude modulation 80 % conforming to EN/IEC 61000-4-3

Dimensions

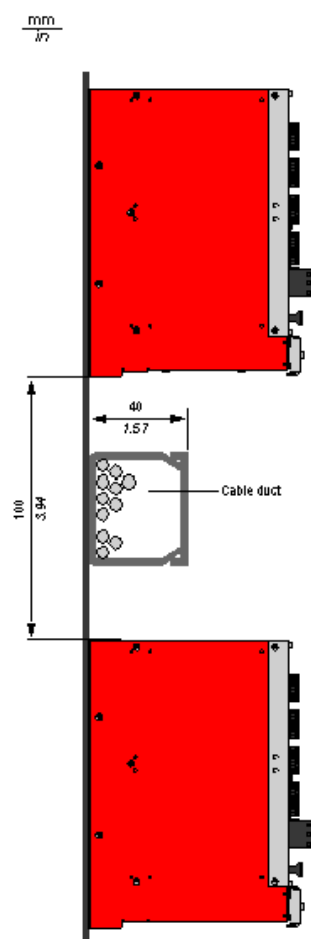
Front View



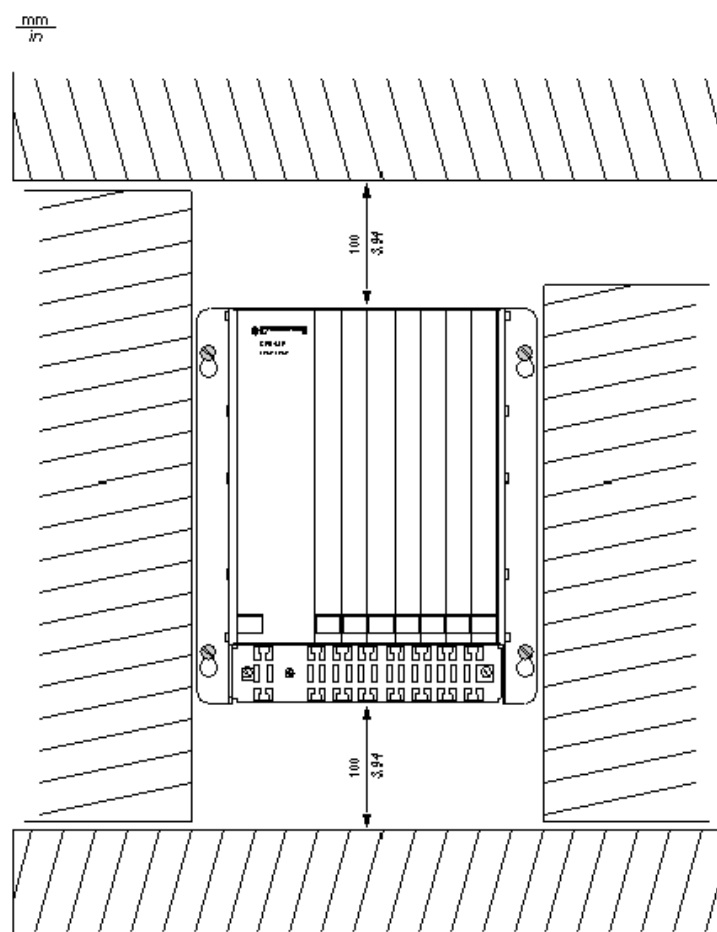
Max. module depth including screw terminals for the power supply: 239 mm/ 9.21 in.

Mounting

Air Circulation

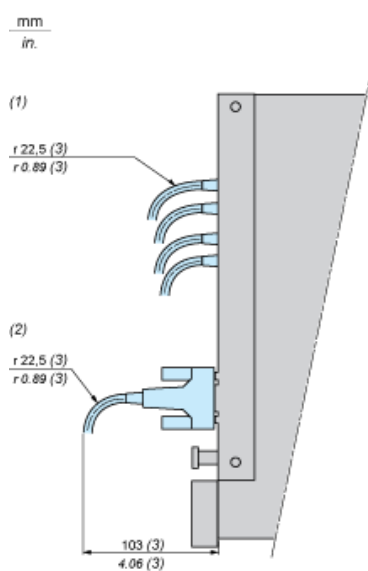


Minimum clearances



Mounting Precautions Relating to Connectors

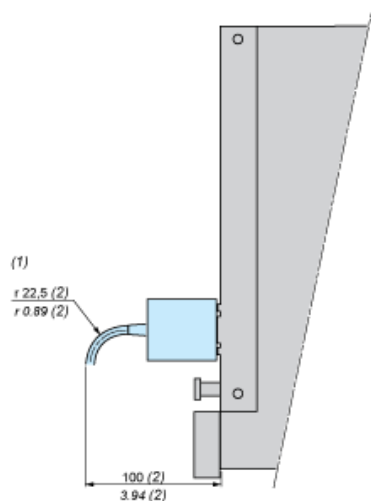
Access to Ethernet Network



- (1) 4 RJ45 connectors: access to Ethernet network (Safe Ethernet protocol, Modbus TCP/IP server protocol)
- (2) SUB-D 9-pin connector: access to Modbus serial link (RTU)
- (3) minimum value

Access to Modbus Serial Link

$\frac{\text{mm}}{\text{in.}}$



- (1) Adaptor XPS MFADAPT: access to Modbus serial link (RTU)
(2) minimum value