

XPSMFDIO241601

Preventa Safety automation - digital input/
output cards - 16 O - 24 I isolated



Main

Range of product	Preventa Safety automation
Product or component type	Digital input/output cards
Safety module name	XPS MF60
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
Function of module	Monitoring safety actuators discrete output Monitoring safety detection discrete input Monitoring safety dialogue discrete input Monitoring safety dialogue discrete output
Standards	DIN V 0801 DIN V 19250 EN 50156 pending IEC 61131
[Us] rated supply voltage	24 V DC (- 15...20 %)
Discrete output number	16

Discrete input number	24, isolated
Connections - terminals	Removable screw terminal block, clamping capacity: 1 x 0.14...1 x 1.5 mm ² , AWG 28...16 flexible without cable end for discrete input Removable screw terminal block, clamping capacity: 1 x 0.14...1 x 1.5 mm ² , AWG 28...16 flexible without cable end for discrete output Removable screw terminal block, clamping capacity: 1 x 0.14...1 x 1.5 mm ² , AWG 28...16 solid without cable end for discrete input Removable screw terminal block, clamping capacity: 1 x 0.14...1 x 1.5 mm ² , AWG 28...16 solid without cable end for discrete output Removable screw terminal block, clamping capacity: 1 x 0.25...1 x 0.5 mm ² , AWG 22...20 flexible with cable end for discrete input Removable screw terminal block, clamping capacity: 1 x 0.25...1 x 0.5 mm ² , AWG 22...20 flexible with cable end for discrete output Removable screw terminal block, clamping capacity: 1 x 0.25...1 x 1.5 mm ² , AWG 22...16 flexible without cable end for discrete input Removable screw terminal block, clamping capacity: 1 x 0.25...1 x 1.5 mm ² , AWG 22...16 flexible without cable end for discrete output Removable screw terminal block, clamping capacity: 2 x 0.14...2 x 0.5 mm ² , AWG 28...20 solid without cable end for discrete input Removable screw terminal block, clamping capacity: 2 x 0.14...2 x 0.5 mm ² , AWG 28...20 solid without cable end for discrete output Removable screw terminal block, clamping capacity: 2 x 0.14...2 x 0.75 mm ² , AWG 28...18 flexible without cable end for discrete input Removable screw terminal block, clamping capacity: 2 x 0.14...2 x 0.75 mm ² , AWG 28...18 flexible without cable end for discrete output Removable screw terminal block, clamping capacity: 2 x 0.25...2 x 0.34 mm ² , AWG 22 flexible without cable end for discrete input Removable screw terminal block, clamping capacity: 2 x 0.25...2 x 0.34 mm ² , AWG 22 flexible without cable end for discrete output Removable screw terminal block, clamping capacity: 2 x 0.5 mm ² , AWG AWG 20 flexible with cable end for discrete input Removable screw terminal block, clamping capacity: 2 x 0.5 mm ² , AWG AWG 20 flexible with cable end for discrete output

Complementary

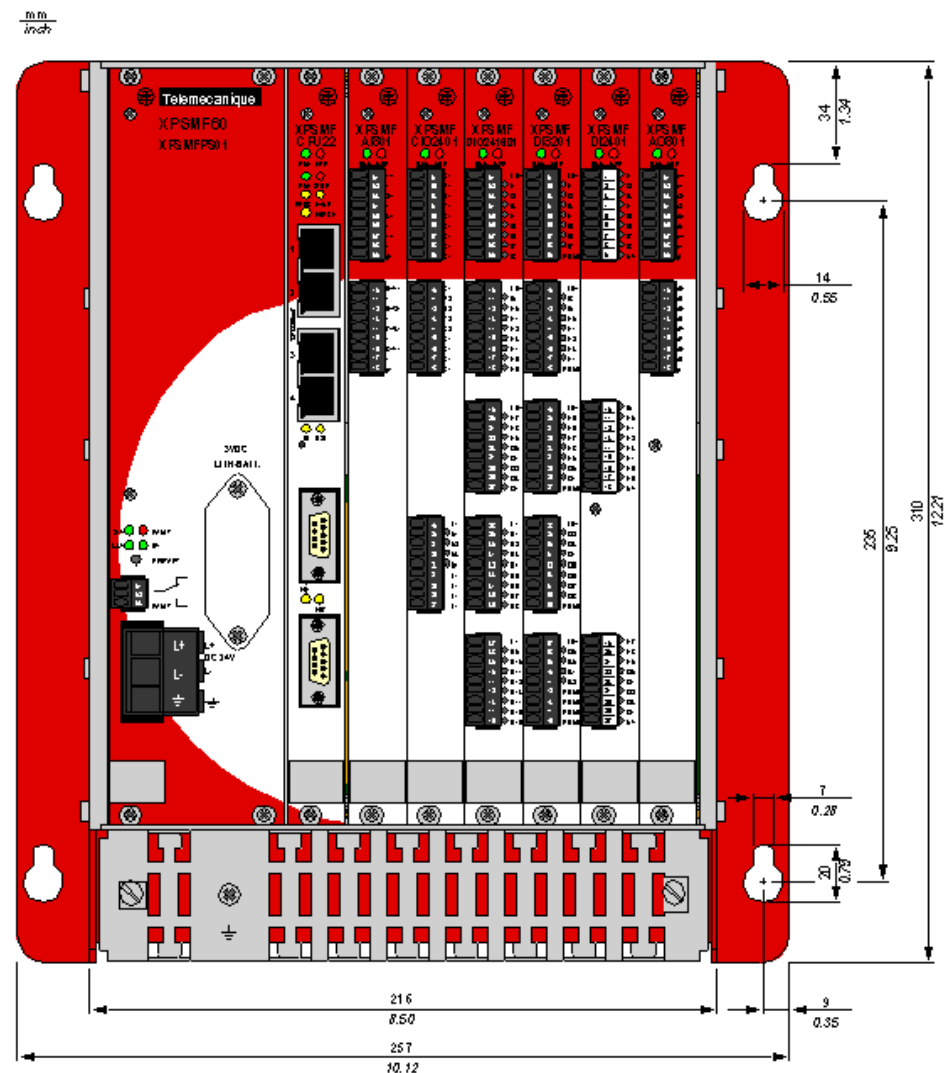
Marking	CE
Discrete output voltage	18.4...26.8 V DC
Discrete output current	<= 2 mA (per channel) 2 A at 30 °C (per channel) 8 A at 30 °C (per card)
Voltage drop	<= 2 V at 2 A for discrete output
Leakage current	<= 1 mA, at 2 V at state 0
Discrete input voltage	24 V DC
Voltage state 0 guaranteed	<= 5 V for discrete input
Voltage state 1 guaranteed	10...30 V for discrete input
Current state 0 guaranteed	<= 1 mA, discrete input
Current state 1 guaranteed	2...5 mA, discrete input
Number of terminal blocks	2 for discrete output 3 for discrete input
Current consumption	0.3 A at 3.3 V DC 0.5 A at 24 V DC
Product weight	0.26 kg

Environment

Product certifications	CSA C-Tick TÜV UL
IP degree of protection	IP20 with covering plate on unused in rack I/O card slots
Ambient air temperature for operation	0...60 °C conforming to EN/IEC 61131-2
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

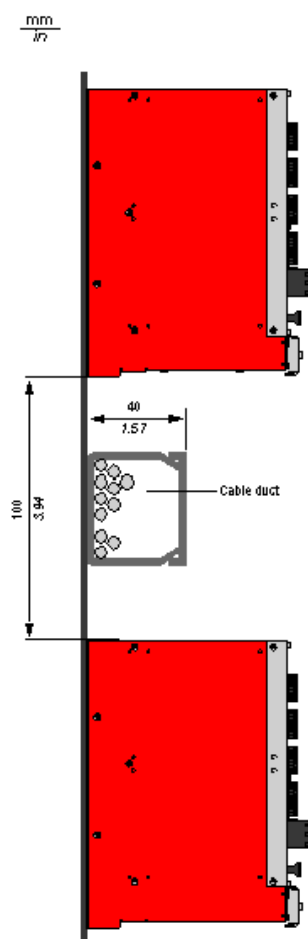
Front View



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

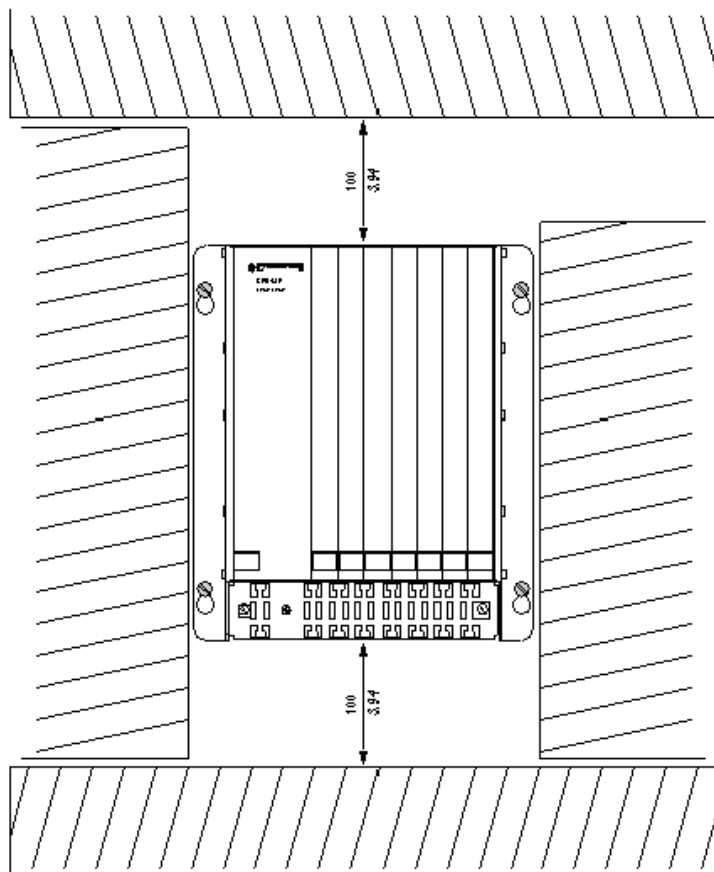
Mounting

Air Circulation

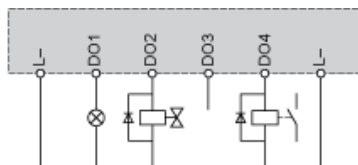


Minimum clearances

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



Actuator Connections to the Outputs



Emergency Stop Connections (Line Control)

