

XPSMFAI801

Preventa Safety automation - analogue input card - 8 I isolated



Main

Range of product	Preventa Safety automation
Product or component type	Analogue input card
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	2-pole measuring of - 10 to 10 V voltages Closed circuit scanning of input channels Single-pole measuring of - 10 V to 10 V voltages Single-pole measuring of 0 to 20 mA currents
Standards	DIN V 0801 DIN V 19250 EN 50156 pending IEC 61131
[Us] rated supply voltage	24 V DC (- 15...20 %)
Group of channels	1 group of 8 or 2 groups of 4 inputs
Analogue input number	4, bipolar isolated 8, unipolar 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 Removable screw terminal block, clamping capacity: 1 x 0.14...2 x 1.5 mm ² , AWG 28...16 solid without cable end Removable screw terminal block, clamping capacity: 1 x 0.25...1 x 0.5 mm ² , AWG 22...20 flexible with cable end Removable screw terminal block, clamping capacity: 1 x 0.25...1 x 1.5 mm ² , AWG 22...16 flexible without cable end Removable screw terminal block, clamping capacity: 2 x 0.14...2 x 0.5 mm ² , AWG 28...20 solid without cable end Removable screw terminal block, clamping capacity: 2 x 0.14...2 x 0.75 mm ² , AWG 28...18 flexible without cable end Removable screw terminal block, clamping capacity: 2 x 0.25...2 x 0.34 mm ² , AWG 22 flexible without cable end Removable screw terminal block, clamping capacity: 2 x 0.5 mm ² , AWG 20 flexible with cable end

Complementary

Marking	CE
External resistance	250 Ohm for 500 Ohm for
Analogue input range	- 10...10 V 0...20 mA with shunt
Input voltage limits	+/- 10.25 V +/- 10.7 V maximum
Input current limits	0...20.5 mA with shunt
Maximum overvoltage on input	-15...15 V
Internal resistance	1 MOhm
Analogue input resolution	12 bits maximum 9 bits effective
Safety accuracy	<= +/- 1 % for analogue input circuit

Transient deviation	$\leq \pm 1\%$
Output voltage tolerance	$\leq \pm 1\%$
Acquisition period	Once per CPU cycle
Processing time	45 μ s
Number of terminal blocks	2
Current consumption	150 mA at 3.3 V DC on rack 380 mA at 24 V DC on power supply
Product weight	0.24 kg

Environment

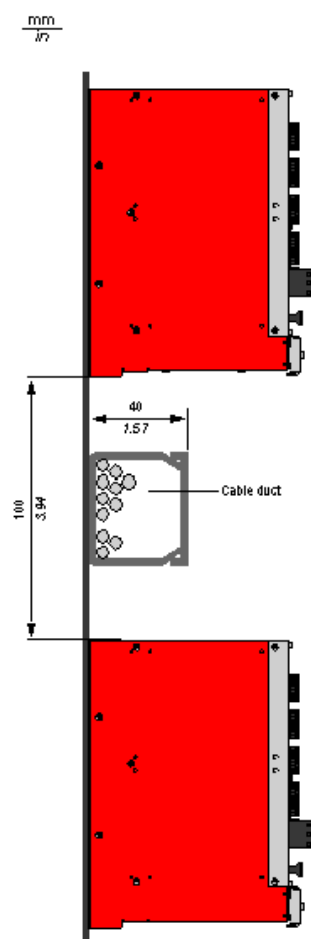
Product certifications	CSA C-Tick TÜV UL
IP degree of protection	IP20 with covering plate on unused in rack I/O card slots
Ambient air temperature for operation	0...60 °C conforming to EN/IEC 61131-2
Ambient air temperature for storage	-40...85 °C conforming to EN/IEC 61131-2
Relative humidity	95 % (supply 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

Front View

$$\frac{m}{m}$$


Mounting

Air Circulation



Minimum clearances

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

