



Main

Range of product	Preventa Safety automation
Product or component type	Preventa safety module
Safety module name	XPSDMB
Safety module application	Monitoring 2 coded magnetic switches
Safety use category	Category 4 maximum conforming to EN 954-1/ISO 13849-1
Function of module	Coded magnetic switch monitoring
[Us] rated supply voltage	24 V DC (- 20...20 %)
Output type	Relay 2 NO, volt-free
Number of additional circuits	2 solid state outputs
Safety level	Can reach PL e/category 4 conforming to EN 954-1/ISO 13849-1 Can reach SIL 3 conforming to EN/IEC 62061

Complementary

Synchronisation time between inputs	< 0.5 ms
Power consumption	<= 2.5 W
Input protection type	Internal, electronic
Control circuit voltage	28 V DC
Line resistance	100 Ohm
Breaking capacity	C300: holding 180 VA AC-15 for relay output C300: inrush 1800 VA AC-15 for relay output
Breaking capacity	1.5 A/24 V - L/R = 50 ms, DC-13 for relay output
Output thermal current	6 A per relay for relay output
[Ith] conventional free air thermal current	<= 12 A
Associated fuse rating	4 A gG for relay output conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200 6 A fast blow for relay output conforming to EN/IEC 60947-5-1, DIN VDE 0660 part 200
Minimum output current	10 mA for relay output
Minimum output voltage	17 V for relay output
Response time on input open	<= 20 ms
[Ui] rated insulation voltage	300 V, degree of pollution 2 conforming to IEC 60647-5-1, DIN VDE 0110 part 1
[Uimp] rated impulse withstand voltage	4 kV overvoltage category III, conforming to IEC 60647-5-1, DIN VDE 0110 part 1
Local signalling	3 LEDs
Connections - terminals	Captive screw clamp terminals: 1 x 0.14...1 x 2.5 mm ² flexible cable without cable end Captive screw clamp terminals: 1 x 0.14...1 x 2.5 mm ² solid cable without cable end Captive screw clamp terminals: 1 x 0.25...1 x 1.5 mm ² flexible cable with cable end, with bezel Captive screw clamp terminals: 1 x 0.25...1 x 2.5 mm ² flexible cable with cable end, without bezel Captive screw clamp terminals: 2 x 0.14...2 x 0.75 mm ² flexible cable without cable end Captive screw clamp terminals: 2 x 0.14...2 x 0.75 mm ² solid cable without cable end Captive screw clamp terminals: 2 x 0.25...2 x 1 mm ² flexible cable with cable end, without bezel Captive screw clamp terminals: 2 x 0.5...2 x 1.5 mm ² flexible cable with cable end, with double bezel
Current consumption	8 mA / 28 V DC on power supply

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Mounting support	35 mm symmetrical DIN rail
Product weight	0.25 kg

Environment

Standards	DIN V VDE 0801 (1990) DIN V VDE 0801 A1 (1994) EN 1088/ISO 14119 EN/IEC 60204-1 EN/IEC 60947-5-1 EN/IEC 60947-5-3
Product certifications	BIA CSA UL
IP degree of protection	IP20(Terminals) conforming to EN/IEC 60529 IP40(Enclosure) conforming to EN/IEC 60529
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-25...85 °C