

Product Datasheet

Characteristic

XMLB010A2S13

pressure switch XMLB 10 bar -
adjustable scale 2 thresholds - 1 C/O



Main

range of product	OsiSense XM
product or component type	electromechanical pressure sensor
pressure sensor type	electromechanical pressure sensor
device short name	XMLB
pressure sensor size	145.04 psi (10 bar)
controlled fluid	air (32...158 °F (0...70 °C)) fresh water (32...158 °F (0...70 °C)) hydraulic oil (32...158 °F (0...70 °C))
fluid connection type	1/4" - 18 NPTF (female)
electrical connection	screw-clamps terminals 1 x 0.5...2 x 2.5 mm ²
AWG gauge	AWG 20...AWG 14
cable entry number	1 tapped entry (1/2" NPT) forcable gland , cable outer diameter: 0.28...0.51 in (7...13 mm)
contacts type and composition	1 C/O
product specific application	-
pressure switch type of operation	regulation between 2 thresholds
electrical circuit type	control circuit
scale type	adjustable differential
local display	with
adjustable range of switching point on rising pressure	10.15...145.04 psi (0.7...10 bar)
adjustable range of switching point on falling pressure	1.89...132.71 psi (0.13...9.15 bar)
possible differential maximum at high setting	108.78 psi (7.5 bar)
maximum permissible accidental pressure	326.33 psi (22.5 bar)
destruction pressure	652.67 psi (45 bar)
pressure actuator	diaphragm
materials in contact with fluid	FPM, FKM zinc alloy
enclosure material	zinc alloy
[In] rated current	3 A, B300, AC-15 (Ue = 120 V) conforming to EN/IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/IEC 60947-5-1

Complementary

possible differential minimum at low setting	8.27 psi (0.57 bar) (+/- 0.05 bar)
possible differential minimum at high setting	12.33 psi (0.85 bar) (- 0.1 bar, + 0.15 bar)
maximum permissible pressure - per cycle	181.3 psi (12.5 bar)
terminal block type	4 terminals
operating rate	<= 120 cyc/mn at > 32 °F (0 °C)
repeat accuracy	< 2 %
[Ui] rated insulation voltage	300 V conforming to UL 508 500 V conforming to EN/IEC 60947-1 300 V conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1
auxiliary contacts operation	snap action
contacts material	silver contacts
resistance across terminals	< 25 mOhm conforming to IEC 255-7 category 3 < 25 mOhm conforming to NF C 93-050 method A
short circuit protection	10 A cartridge fuse type gG (gl)
mechanical durability	5000000 cycles
setting	external
height	4.45 in (113 mm)
depth	2.95 in (75 mm)
width	1.38 in (35 mm)
product weight	1.55 lb(US) (0.705 kg)

Environment

standards	CE EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14
product certifications	BV CCC CSA LROS (Lloyds register of shipping) UL EAC
protective treatment	TC (standard version)
ambient air temperature for operation	-13...158 °F (-25...70 °C)
ambient air temperature for storage	-40...158 °F (-40...70 °C)
operating position	any position
vibration resistance	4 gn (f = 30...500 Hz) conforming to IEC 60068-2-6
shock resistance	50 gn conforming to IEC 60068-2-27
class of protection against electric shock	class I conforming to IEC 1140 class I conforming to IEC 536 class I conforming to NF C 20-030
IP degree of protection	IP66 conforming to EN/IEC 60529

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0928 -
REACH	Reference not containing SVHC above the threshold
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Warranty period	18 months
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