Product data sheet
Characteristics

XMLBM03R2S11
vacuum switch XMLB -200 mbar - adjustable scale 2 thresholds - 1 C/O

Main

Range of product	OsiSense XM
Product or component type	Electromechanical pressure sensor
Pressure sensor type	Electromechanical vacuum sensor
Device short name	XMLB
Pressure sensor size	2.90 psi (0.2 bar)
Controlled fluid	Air (0…160 °C) Hydraulic oil (0…160 °C)
Fluid connection type	G 1/4 (female) conforming to ISO 228
Electrical connection	Screw-clamps terminals, 1 x 0.5...2 x 2.5 mm² 1 connector Pg 13
AWG gauge	AWG 20...AWG 14
Cable entry	Cable gland 0.35…0.51 in (9…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	-2.64…-0.03 psi (-0.182…-0.002 bar)
Adjustable range of switching point on falling pressure	-2.90…-0.29 psi (-0.2…-0.02 bar)
Possible differential maximum at high setting	2.61 psi (0.18 bar)
Maximum permissible accidental pressure	29.01 psi (2 bar)
Destruction pressure	50.76 psi (3.5 bar)
Pressure actuator	Diaphragm

Materials in contact with fluid	Aluminium Steel FPM, FKM
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	0.26 psi (0.018 bar) +/- 2 mbar)
Possible differential minimum at high setting	0.26 psi (0.018 bar) +/- 2 mbar)
Maximum permissible pressure - per cycle	14.50 psi (1 bar)
Terminal block type	4 terminals
Maximum operating rate	120 cyc/mn
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 EN/IEC 60947-1
Auxiliary contacts operation	Snap action
Contacts material	Silver contacts
Maximum 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	3000000 cycles
Setting	External
Height	5.71 in (145 mm)
Depth	6.14 in (156 mm)
Width	5.91 in (150 mm)
Net weight	7.30 lb(US) (3.31 kg)

Environment

Standards	CSA C22.2 No 14 CE UL 508 EN/IEC 60947-5-1
Product certifications	LROS (Lloyds register of shipping) BV CSA CCC EAC UL
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	2 gn conforming to IEC 60068-2-6 (f = 30…500 Hz)
Shock resistance	30 gn conforming to IEC 60068-2-27
Electrical shock protection class	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

Packing Units

Package 1 Weight	7.80 lb(US) (3.536 kg)

Package 1 Height	1.800 dm
Package 1 width	1.600 dm
Package 1 Length	1.600 dm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

Contractual warranty

Warranty	18 months

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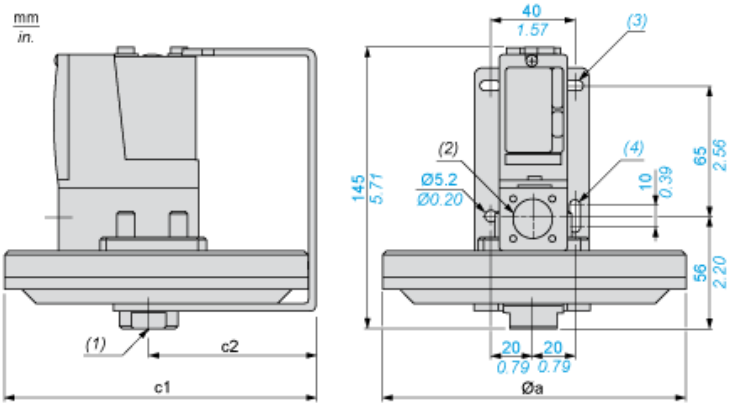
Dimensions



Ø a = 150
c1 = 155.5
c2 = 80.5
(1) 1 fluid entry, tapped G1/4 (BSP female)
(2) 1 electrical connections entry, tapped Pg 13.5
(3) 2 elongated holes Ø 10.2 x 5.2
(4) 1 elongated hole Ø 15.2 x 5.2

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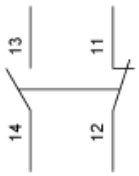
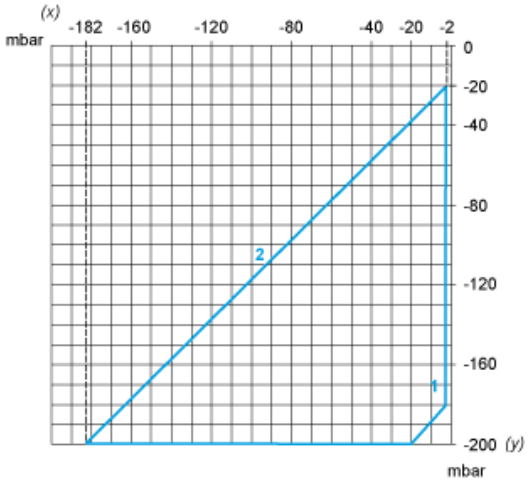
Wiring Diagram

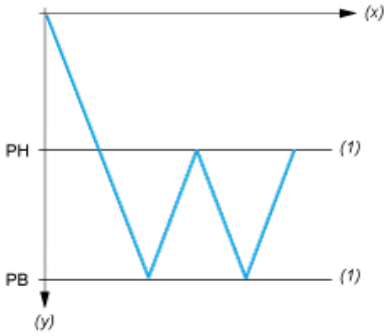
Terminal Model



Operating Curves



(x) Rising pressure
(y) Falling pressure
1 : Maximum differential
2 : Minimum differential



(x) Time
(y) Vacuum
(1) Adjustable value
PH : High point
PB : Below point