

XMLBM03R2S12

Electromechanical pressure sensor, Pressure sensors XM, 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 rating	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 mm ²
AWG gauge	AWG 20...AWG 14
Cable entry	Cable gland 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	-0.182...-0.002 bar
Adjustable range of switching point on falling pressure	-0.2...-0.02 bar
Possible differential maximum at high setting	0.18 bar
Maximum permissible accidental pressure	2 bar
Destruction pressure	3.5 bar
Pressure actuator	Diaphragm
Materials in contact with fluid	Steel Aluminium FPM, FKM
Enclosure material	Zinc alloy
[In] rated current	3 A, B300, AC-15 (U _e = 120 V) conforming to EN/IEC 60947-5-1 1.5 A, B300, AC-15 (U _e = 240 V) conforming to EN/IEC 60947-5-1 0.1 A, R300, DC-13 (U _e = 250 V) conforming to EN/IEC 60947-5-1

Complementary

Possible differential minimum at low setting	0.018 bar (+/- 2 mbar)
Possible differential minimum at high setting	0.018 bar (+/- 2 mbar)
Maximum permissible pressure - per cycle	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	145 mm
Depth	156 mm
Width	150 mm
Net weight	3.31 kg

Environment

Standards	IEC 60947-5-1 UL 508 EN 60947-5-1 EN/IEC 60947-5-1 CE CSA C22.2 No 14
Product certifications	LROS (Lloyds register of shipping) EAC BV UL CSA CCC
Protective treatment	TC standard version
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.093 kg
Package 1 Height	32 cm
Package 1 width	31 cm
Package 1 Length	31 cm

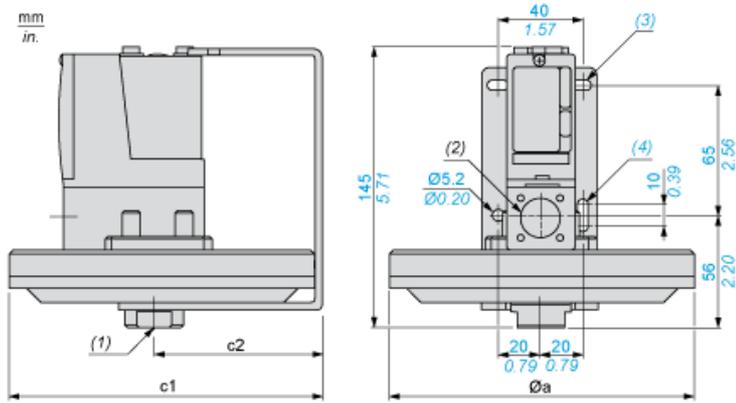
Offer Sustainability

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

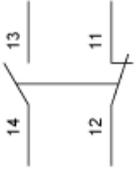


$\varnothing a = 150$
 $c1 = 155.5$
 $c2 = 80.5$

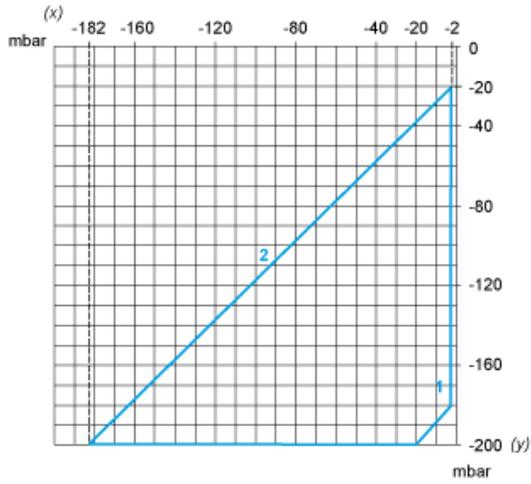
- (1) 1 fluid entry, tapped G1/4 (BSP female)
- (2) 1 electrical connections entry, tapped M20 x 1.5
- (3) 2 elongated holes $\varnothing 10.2 \times 5.2$
- (4) 1 elongated hole $\varnothing 15.2 \times 5.2$

Wiring Diagram

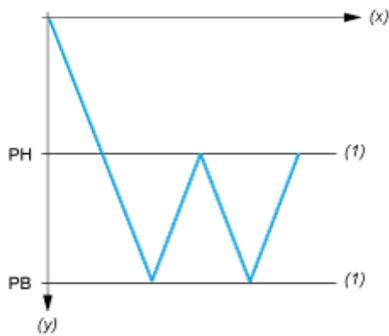
Terminal Model



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