Product data sheet

Specifications



Electromechanical pressure sensor, Pressure sensors XM, switch XMLB 1 bar, adjustable scale 2 thresholds, 1 C/O

XMLB001S2S12

Main

Range of Product	OsiSense XM
Product or Component Type	Electromechanical pressure sensor
Pressure sensor type	Electromechanical pressure sensor
Device short name	XMLB
Pressure Rating	14.50 psi (1 bar)
Controlled fluid	Corrosive fluid 32…320 °F (0…160 °C)) Fresh water 32…320 °F (0…160 °C))
Fluid connection type	G 1/4 (female) ISO 228
Electrical connection	Screw-clamps terminals, 1 x 0.5...2 x 2.5 mm²
AWG Gauge	AWG 20...AWG 14
Cable entry	Cable gland 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	0.73…14.50 psi (0.05…1 bar)
Adjustable range of switching point on falling pressure	0.15…13.63 psi (0.01…0.94 bar)
Possible differential maximum at high setting	10.88 psi (0.75 bar)
Maximum permissible accidental pressure	32.63 psi (2.25 bar)
Destruction pressure	65.27 psi (4.5 bar)
Pressure actuator	Diaphragm
Materials in contact with fluid	PTFE 316L stainless steel
Enclosure Material	Zinc alloy
Line Rated Current	3 A, B300, AC-15 (Ue = 120 V)EN/IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V)EN/IEC 60947-5-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

0.1 A, R300, DC-13 (Ue = 250 V)EN/IEC 60947-5-1

Complementary

Possible differential minimum at low setting	0.58 psi (0.04 bar) +/- 10 mbar)
Possible differential minimum at high setting	0.87 psi (0.06 bar) +/- 20 mbar)
Maximum permissible pressure - per cycle	18.13 psi (1.25 bar)
Terminal block type	4 terminals
Maximum operating rate	120 cyc/mn
Repeat accuracy	2 %
[Ui] rated insulation voltage	300 V UL 508 500 V EN/IEC 60947-1 300 V 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 IEC 255-7 category 3 25 mOhm NF C 93-050 method A
Short-circuit protection	10 A cartridge fuse gG (gl)
Mechanical durability	4000000 cycles
Setting	External
Height	6.38 in (162 mm)
Depth	4.33 in (110 mm)
Width	4.33 in (110 mm)
Net Weight	5.68 lb(US) (2.575 kg)

Environment

Standards	CSA C22.2 No 14 UL 508 EN/IEC 60947-5-1 CE
Product Certifications	CSA LROS (Lloyds register of shipping) CCC EAC UL BV
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 30…500 Hz)IEC 60068-2-6
Shock resistance	30 gn IEC 60068-2-27
Electrical shock protection class	Class I IEC 1140 Class I IEC 536 Class I NF C 20-030
IP degree of protection	IP66 conforming to EN/IEC 60529

Ordering and shipping details

GTIN	3389110754285

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.30 in (16.0 cm)
Package 1 Width	5.91 in (15.0 cm)
Package 1 Length	5.91 in (15.0 cm)
Package 1 Weight	5.67 lb(US) (2.573 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
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

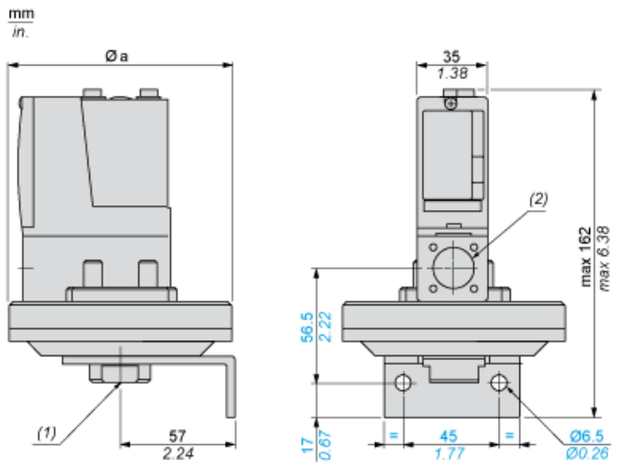
Contractual warranty

Warranty	18 months

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Dimensions Drawings

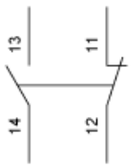
Dimensions



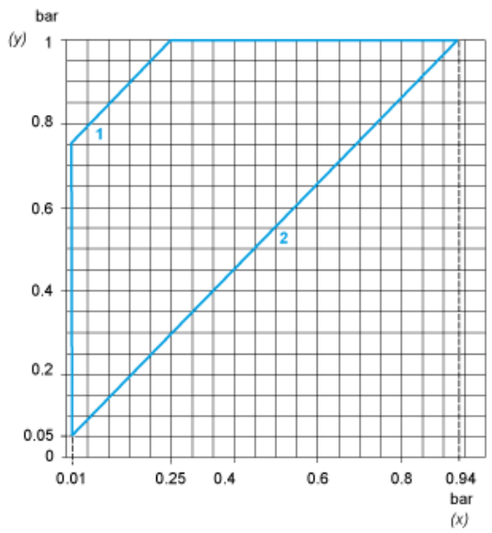
Ø a = 110 mm / 4.33 in.
(1) 1 fluid entry, tapped G1/4 (BSP female)
(2) 1 electrical connections entry, tapped M20 x 1.5

Wiring Diagram

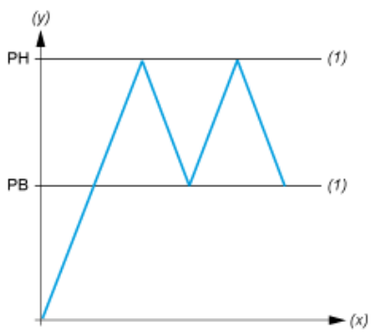
Terminal Model



Operating Curves



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



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

Recommended replacement(s)