

XMLBM05A2S11

vacu-pressure sensor XMLB 5 bar - adjustable
scale 2 thresholds - 1 C/O



Main

Range of Product	Telemecanique Pressure sensors XM
Product or Component Type	Electromechanical pressure sensor
Pressure sensor type	Electromechanical vacuum-pressure sensor
Device short name	XMLB
Pressure Rating	72.52 psi (5 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	G 1/4 (female) ISO 228
Electrical connection	Screw-clamps terminals, 1 x 0.5...2 x 2.5 mm ² 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	-7.25...72.52 psi (-0.5...5 bar)
Adjustable range of switching point on falling pressure	-14.50...65.27 psi (-1...4.5 bar)
Possible differential maximum at high setting	87.02 psi (6 bar)
Maximum permissible accidental pressure	163.17 psi (11.25 bar)
Destruction pressure	333.59 psi (23 bar)
Pressure actuator	Diaphragm
Materials in contact with fluid	Zinc alloy 304L stainless steel Nitrile
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 0.1 A, R300, DC-13 (Ue = 250 V)EN/IEC 60947-5-1

Complementary

Possible differential minimum at low setting	7.25 psi (0.5 bar) +/- 0.05 bar
Possible differential minimum at high setting	7.25 psi (0.5 bar) +/- 0.05 bar
Maximum permissible pressure - per cycle	90.65 psi (6.25 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

[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	3000000 cycles
Setting	External
Height	4.45 in (113 mm)
Depth	2.95 in (75 mm)
Width	1.38 in (35 mm)
Net Weight	1.51 lb(US) (0.685 kg)

Environment

Standards	UL 508 CE EN/IEC 60947-5-1 CSA C22.2 No 14
Product Certifications	LROS (Lloyds register of shipping) [RETURN]UL[RETURN]CCC[RETURN]CSA[RETURN]EAC[RETURN]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	4 gn 30...500 Hz)IEC 60068-2-6
Shock resistance	50 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

Category	US10DS222661
Discount Schedule	0DS2
GTIN	3389110712759
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.57 in (4.0 cm)
Package 1 Width	4.80 in (12.2 cm)
Package 1 Length	3.35 in (8.5 cm)
Package 1 Weight	25.75 oz (730.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	13
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	21.60 lb(US) (9.797 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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months
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Dimensions



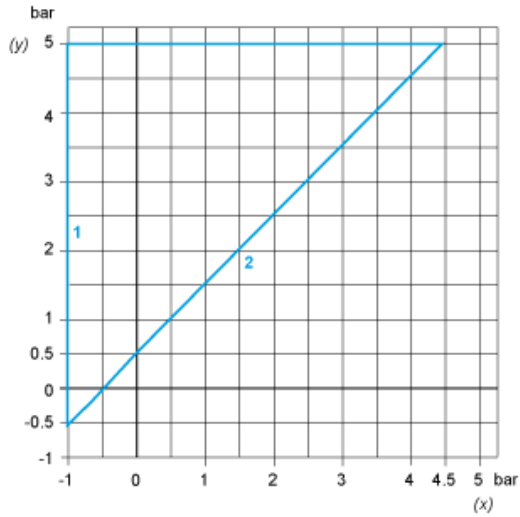
- (1) 1 fluid entry, tapped G1/4 (BSP female)
(2) 1 electrical connections entry, tapped Pg 13.5
Ø : 2 elongated holes Ø 5.2 x 6.7

Wiring Diagram

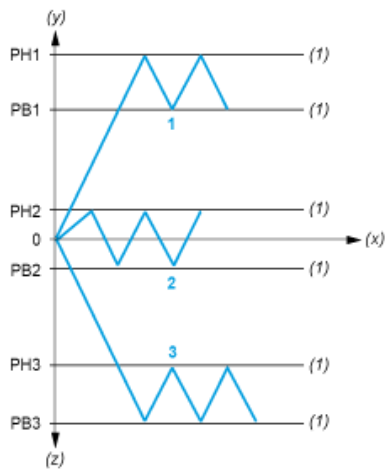
Terminal Model



Operating Curves



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



- (y) Pressure
- (x) Time
- (z) Vacuum
- (f) Adjustable value
- PH : High point
- PB : Below point