

XMLB020B2S11

pressure switch XMLB 20 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 pressure sensor
Device short name	XMLB
Pressure Rating	290.08 psi (20 bar)
Controlled fluid	Air 32...320 °F (0...160 °C)) Fresh water 32...320 °F (0...160 °C)) Hydraulic oil 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 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	18.85...290.08 psi (1.3...20 bar)
Adjustable range of switching point on falling pressure	4.35...266.87 psi (0.3...18.4 bar)
Possible differential maximum at high setting	159.54 psi (11 bar)
Maximum permissible accidental pressure	652.67 psi (45 bar)
Destruction pressure	1305.34 psi (90 bar)
Pressure actuator	Diaphragm
Materials in contact with fluid	Brass FPM, FKM
Enclosure Material	Zinc alloy
Line Rated Current	3 A, B300, AC-15 (Ue = 120 V)IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V)IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V)IEC 60947-5-1

Complementary

Possible differential minimum at low setting	14.50 psi (1 bar) +/- 0.25 bar)
Possible differential minimum at high setting	23.21 psi (1.6 bar) +/- 0.25 bar)
Maximum permissible pressure - per cycle	362.59 psi (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 IEC 60947-1 300 V CSA C22.2 No 14

[Uimp] rated impulse withstand voltage	6 kV 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	5000000 cycles
Setting	External
Height	4.45 in (113 mm)
Depth	2.95 in (75 mm)
Width	1.38 in (35 mm)
Net Weight	1.55 lb(US) (0.705 kg)

Environment

Standards	UL 508 CSA C22.2 No 14 IEC 60947-5-1 CE
Product Certifications	BV[RETURN]CSA[RETURN]UL[RETURN]LROS (Lloyds register of shipping) [RETURN]CCC
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 IEC 60529

Ordering and shipping details

Category	US10DS222661
Discount Schedule	0DS2
GTIN	3389110713862
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.92 in (12.500 cm)
Package 1 Width	1.65 in (4.200 cm)
Package 1 Length	3.35 in (8.500 cm)
Package 1 Weight	26.88 oz (762.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	13
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	22.68 lb(US) (10.288 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
Circularity Profile	No need of specific recycling operations
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months
----------	-----------

Dimensions



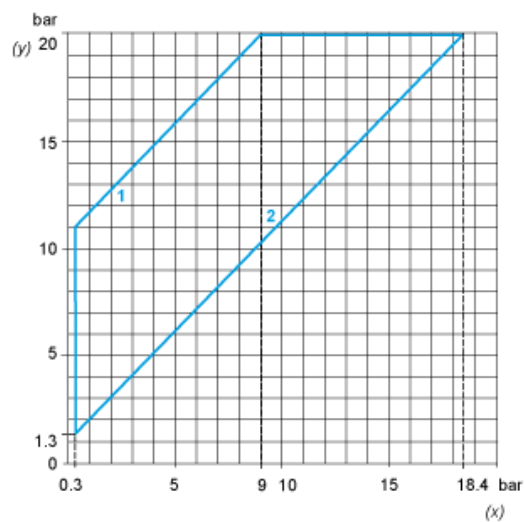
- (1) 1 fluid entry, tapped G1/4 (BSP female)
 (2) 1 electrical connections entry, tapped Pg 13.5
 Ø : 2 elongated holes Ø 5.2 x 6.7

Wiring Diagram

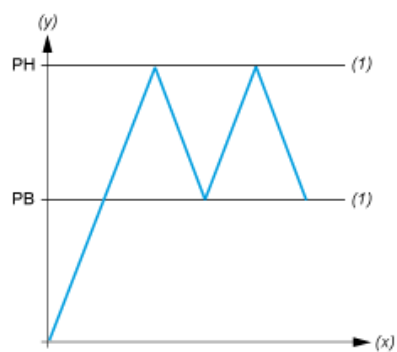
Terminal Model



Operating Curves



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



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