Product data sheet
Characteristics

XMLBM02V2C11
vacuum switch XMLB -1 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 sensor
Device short name	XMLB
Pressure rating	-1 bar
Controlled fluid	Air (0…70 °C) Fresh water (0…70 °C) Hydraulic oil (0…70 °C)
Fluid connection type	G 1/4 (female) conforming to ISO 228
Electrical connection	1 male connector EN 175301-803-A (ex DIN43650), 4 pins
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	-0.87…-0.01 bar
Adjustable range of switching point on falling pressure	-1…-0.14 bar
Possible differential maximum at high setting	0.8 bar
Maximum permissible accidental pressure	9 bar
Destruction pressure	18 bar
Pressure actuator	Diaphragm
Materials in contact with fluid	Nitrile 304L stainless steel Zinc alloy
Enclosure material	Zinc alloy
[In] rated current	3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC 60947-5-1

Complementary

Possible differential minimum at low setting	0.13 bar (+/- 0.02 bar)
Possible differential minimum at high setting	0.13 bar (+/- 0.02 bar)
Maximum permissible pressure - per cycle	5 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 IEC 60947-1 300 V conforming to CSA C22.2 No 14

[Uimp] rated impulse withstand voltage	6 kV conforming to 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	158 mm
Depth	77.5 mm
Width	55 mm
Net weight	1.03 kg

Environment

Standards	CE IEC 60947-5-1 CSA C22.2 No 14 UL 508
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	-25…70 °C
Ambient air temperature for storage	-40…70 °C
Operating position	Any position
Vibration resistance	4 gn conforming to IEC 60068-2-6 (f = 30…500 Hz)
Shock resistance	50 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	IP65 conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.2 cm
Package 1 Width	13.7 cm
Package 1 Length	10.8 cm
Package 1 Weight	1.086 kg
Unit Type of Package 2	S01
Number of Units in Package 2	5
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	5.565 kg
Unit Type of Package 3	S02
Number of Units in Package 3	5
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	5.885 kg

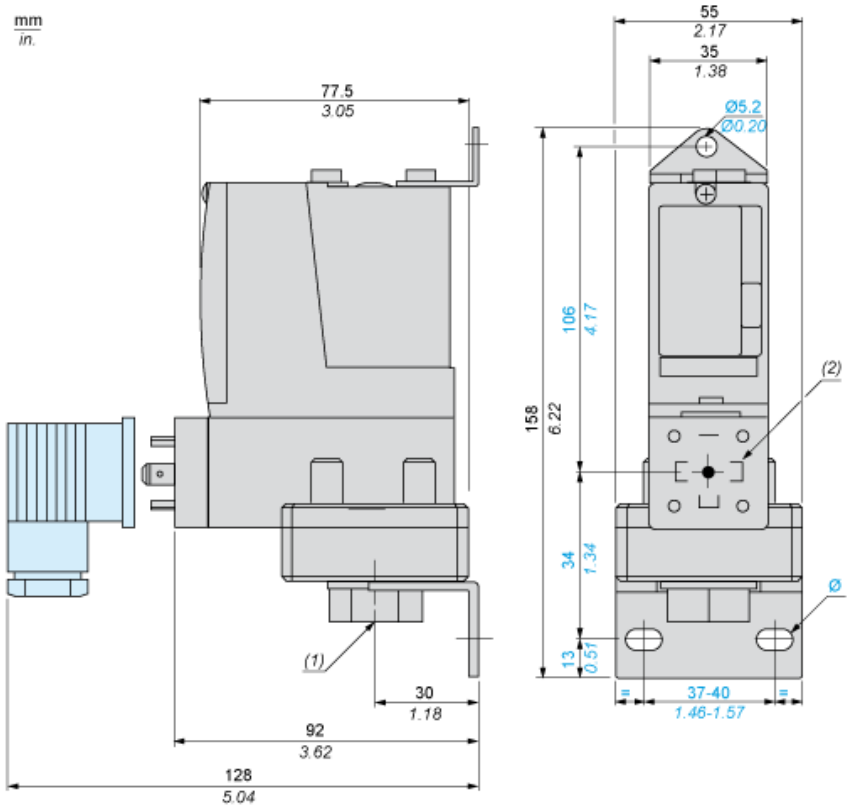
Offer Sustainability

Sustainable offer status	Green Premium product
Circularity Profile	No need of specific recycling operations
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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months

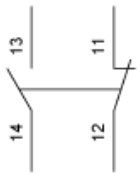
Dimensions



(1) 1 fluid entry, tapped G1/4 (BSP female)
(2) EN 175301-803-A connector
Ø : 2 elongated holes Ø 10.2 x 5.2

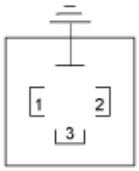
Wiring Diagram

Terminal Model



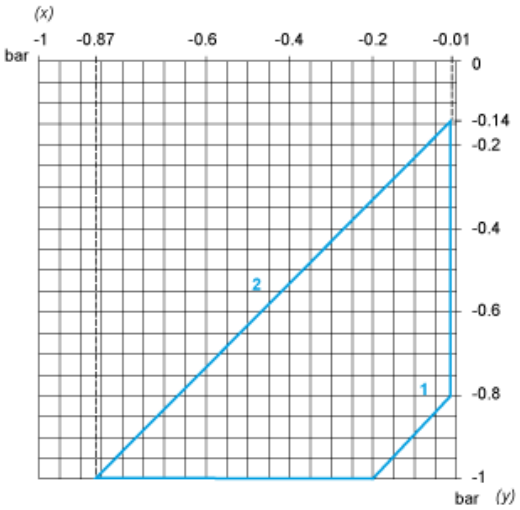
Wiring Diagram

Vacuum Switch Connector Pin View

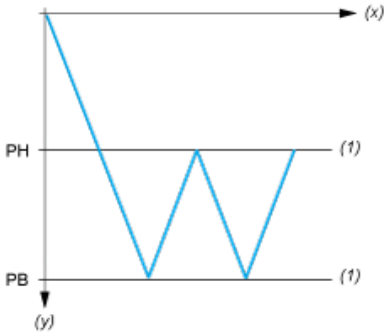


(1) 11 and 13
(2) 12
(3) 14

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