



**Main**

Range of product	Telemecanique Pressure sensors XM
Product or component type	Electromechanical pressure sensor
Pressure sensor type	Electromechanical vacuum sensor
Device short name	XMDL
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	Screw-clamps terminals, 1 x 0.5...2 x 2.5 mm <sup>2</sup>
AWG gauge	AWG 20...AWG 14
Cable entry	Cable gland 9...13 mm
Contacts type and composition	2 C/O snap action, silver contacts 2 C/O staggered, silver contacts
Product specific application	Dual stage
Pressure switch type of operation	Detection of 2 single thresholds
Electrical circuit type	Control circuit
Scale type	Fixed differential
Local display	Without
Maximum permissible accidental pressure	9 bar
Destruction pressure	18 bar
Pressure actuator	Diaphragm
Materials in contact with fluid	Zinc alloy Nitrile 304L stainless steel
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**

Spread between 2 stages	0.02...0.88 bar
Natural differential at low setting	0.1 bar
Natural differential at high setting	0.1 bar
Maximum permissible pressure - per cycle	5 bar
Terminal block type	8 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
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	90 mm
Width	55 mm
Net weight	1.015 kg

## Environment

Standards	CE CSA C22.2 No 14 IEC 60947-5-1 UL 508
Product certifications	CSA[RETURN]UL
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	IP66 conforming to IEC 60529

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.0 cm
Package 1 Width	10.5 cm
Package 1 Length	14.0 cm
Package 1 Weight	1.05 kg

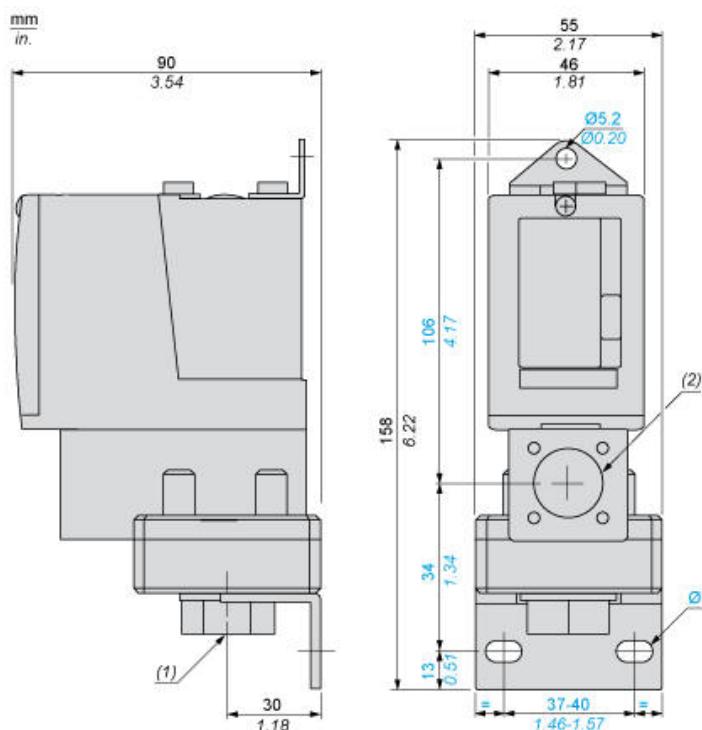
## Offer Sustainability

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: Diisobutyl 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
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Dimensions



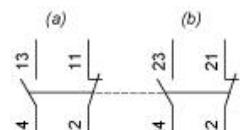
(1) 1 fluid entry, tapped G1/4 (BSP female)  
(2) 1 electrical connections entry, tapped Pg 13.5  
Ø : 2 elongated holes Ø 10.2 x 5.2

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Wiring Diagram

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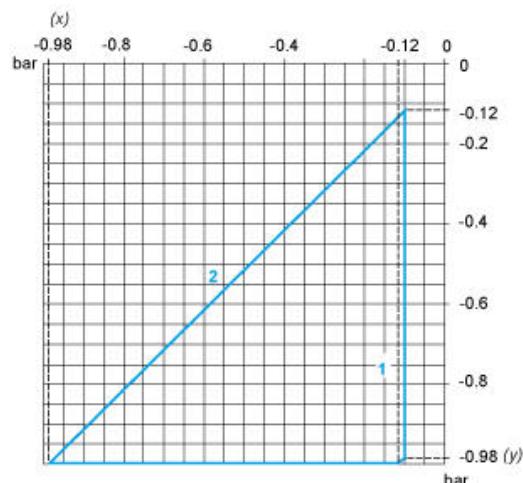
Terminal Model



(a) Contact 1  
(b) Contact 2

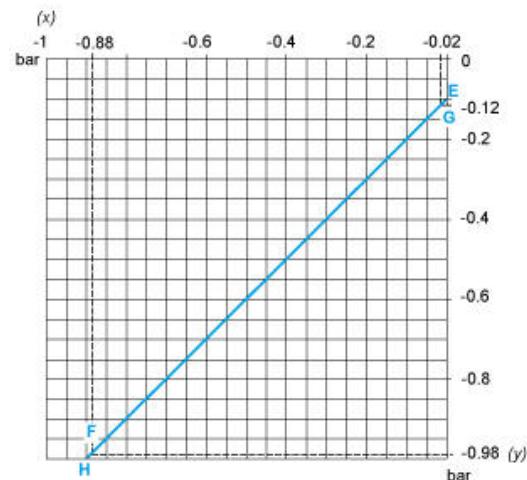
## Operating Curves

### High Setting Tripping Points of Contacts 1 and 2

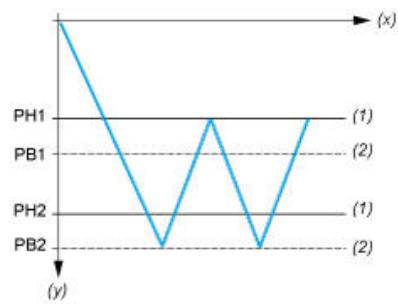


- (x) PH1 setting (falling pressure)
- (y) PH2 setting (falling pressure)
- 1 : Maximum differential
- 2 : Minimum differential

### Natural Differential of Contacts 1 and 2



- (x) Rising pressure
- (y) Falling pressure
- EF : Contact 1
- GH : Contact 2



(x) Time  
(y) Vacuum  
(1) Adjustable value  
(2) Non adjustable value  
PH : High point  
PB : Below point