



Main

Range of product	Telemecanique Pressure sensors XM
Product or component type	Electromechanical pressure sensor
Pressure sensor type	Electromechanical pressure sensor
Device short name	XMDL
Pressure rating	160 bar
Controlled fluid	Hydraulic oil (0...160 °C)
Fluid connection type	1/4" - 18 NPTF (female)
Electrical connection	Screw-clamps terminals, 1 x 0.5...2 x 2.5 mm ²
AWG gauge	AWG 20...AWG 14
Cable entry	Cable gland
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	360 bar
Destruction pressure	720 bar
Pressure actuator	Piston
Materials in contact with fluid	FPM, FKM Brass PTFE 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	6...83 bar
Natural differential at low setting	8.8 bar
Natural differential at high setting	20 bar
Maximum permissible pressure - per cycle	200 bar
Terminal block type	8 terminals
Maximum operating rate	60 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 MΩ conforming to IEC 255-7 category 3 25 mΩ conforming to NF C 93-050 method A
Short-circuit protection	10 A cartridge fuse, type gG (gl)
Mechanical durability	6000000 cycles

Setting	External
Height	113 mm
Depth	85 mm
Width	46 mm
Net weight	0.75 kg

Environment

Standards	UL 508 CE IEC 60947-5-1 CSA C22.2 No 14
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

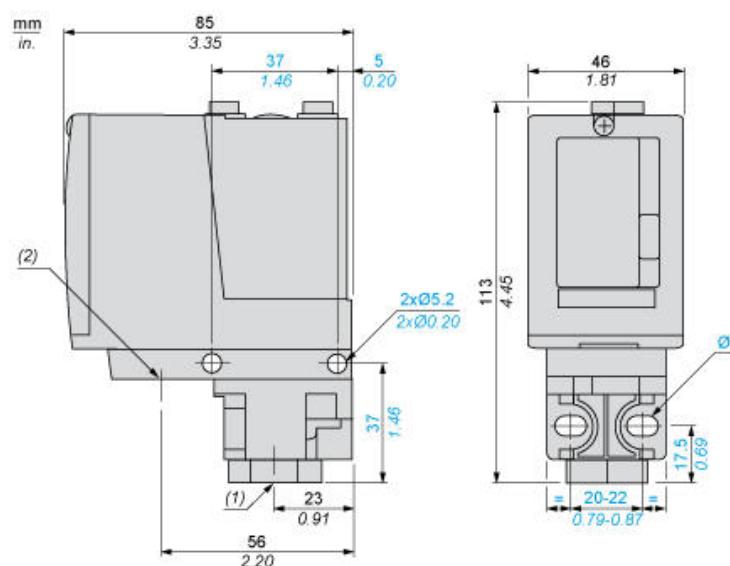
Offer Sustainability

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 www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months
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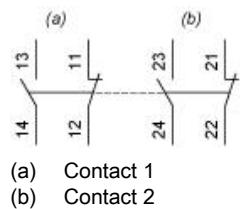
Dimensions



(1) 1 fluid entry, tapped 1/4" NPTF
(2) 1 electrical connections entry, tapped 1/2" NPT
Ø : 2 elongated holes Ø 5.2 x 6.7

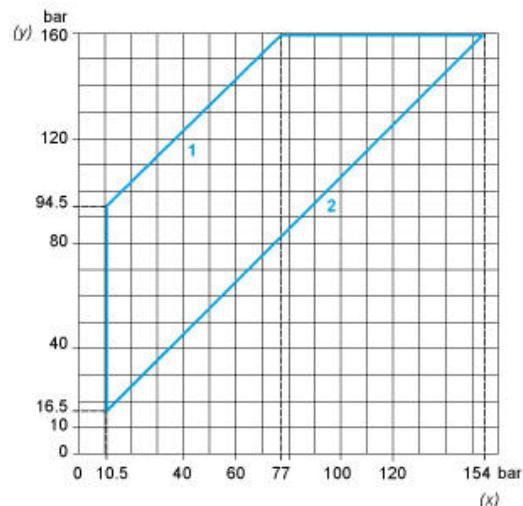
Wiring Diagram

Terminal Model



Operating Curves

High Setting Tripping Points of Contacts 1 and 2



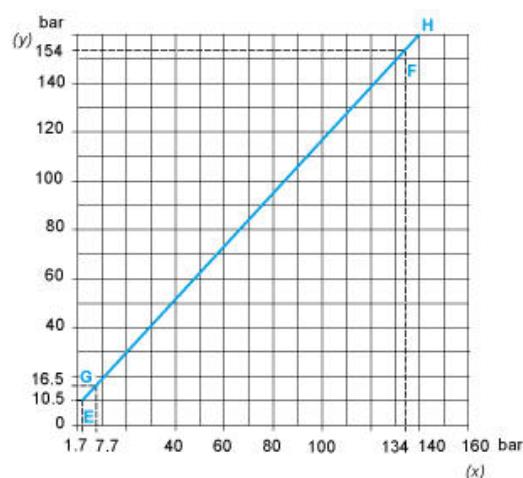
(y) PH2 setting (rising pressure)

(x) PH1 setting (rising pressure)

1 : Maximum differential

2 : Minimum differential

Natural Differential of Contacts 1 and 2

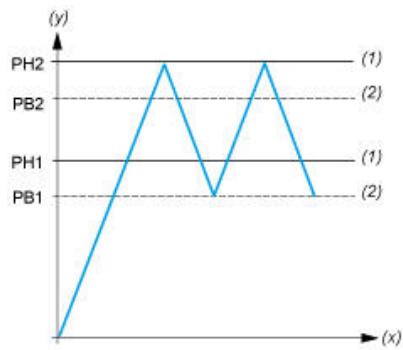


(y) Rising pressure

(x) Falling pressure

EF : Contact 1

GH : Contact 2



(y) Pressure

(x) Time

(1) Adjustable value

(2) Non adjustable value

PH : High point

PB : Below point