xmld070d1s13

Main

Range of product	OsiSense XM
Product or component type	Electromechanical pressure sensor
Pressure sensor type	Electromechanical pressure sensor
Device short name	XMLD
Pressure sensor size	1015.26 psi (70 bar)
Controlled fluid	Hydraulic oil (32...320 °F (0...160 °C))
Fluid connection type	1/4" - 18 NPTF (female)
Electrical connection	Screw-clamps terminals 1 x 0.5...2 x 2.5 mm²
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	2320.6 psi (160 bar)
Destruction pressure	4641.21 psi (320 bar)
Pressure actuator	Piston
Materials in contact with fluid	Brass FPM, FKM PTFE Steel
Enclosure material	Zinc alloy
[In] rated current	3 A, B300, AC-15 (Ue = 120 V) conforming to EN/IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/IEC 60947-5-1

Complementary

Spread between 2 stages	40.61...667.17 psi (2.8...46 bar)
Natural differential at low setting	72.52 psi (5 bar)
Natural differential at high setting	137.79 psi (9.5 bar)
Maximum permissible pressure - per cycle	1305.34 psi (90 bar)
Terminal block type	8 terminals
Operating rate	60 cyc/mn
Repeat accuracy	< 2 %
[Ui] rated insulation voltage	500 V conforming to EN/IEC 60947-1 300 V conforming to UL 508 300 V conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1
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	6000000 cycles
Setting	External
Height	4.45 in (113 mm)
Depth	3.35 in (85 mm)

Width	1.81 in (46 mm)
Product weight	1.58 lb(US) (0.715 kg)

Environment

|	
standards	CE EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14
product certifications	CSA UL EAC
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 (f = 30...500 Hz) conforming to IEC 60068-2-6
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 EN/IEC 60529

Offer Sustainability

Not Green Premium product	Not Green Premium product
Compliant - since 0928 - Schneider Electric declaration of conformity	Compliant - since 0928 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Need no specific recycling operations	Need no specific recycling operations
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	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.	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 more information go to www.p65warnings.ca.gov

Contractual warranty

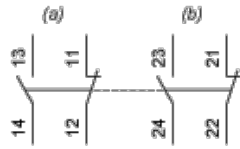|	
Warranty period	18 months

Dimensions
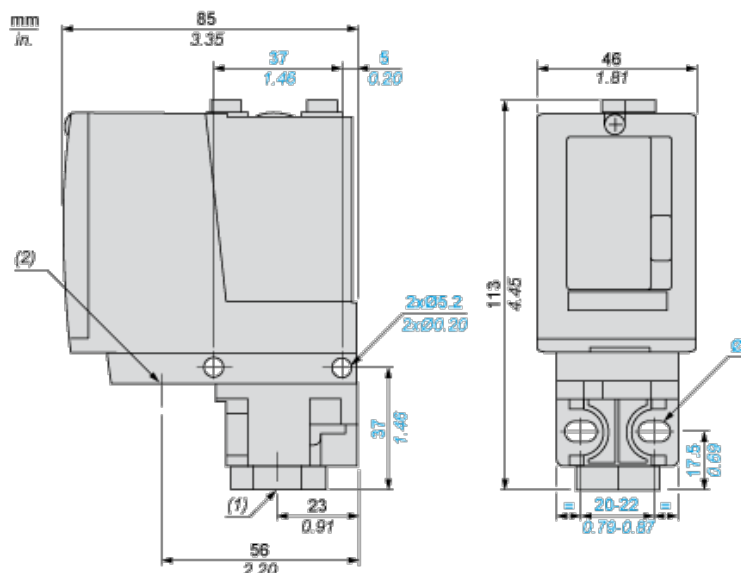
(1) 1 fluid entry, tapped 1/4" NPTF

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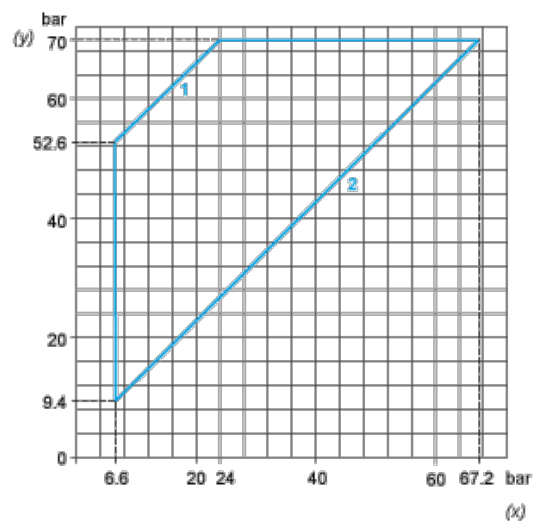
Ø : 2 elongated holes Ø 5.2 x 6.7

Wiring Diagram

Terminal Model
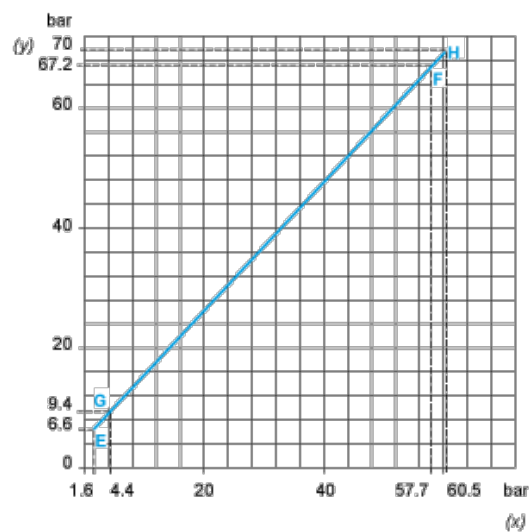

(a) Contact 1

(b) Contact 2

Operating Curves
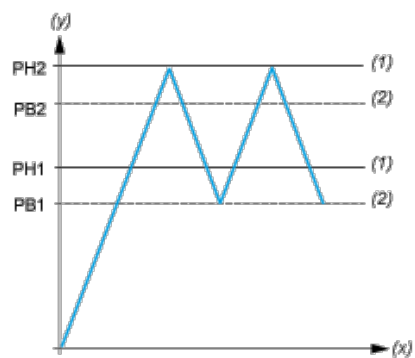
High Setting Tripping Points of Contacts 1 and 2

(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