



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	4351.13 psi (300 bar)
Controlled fluid	Hydraulic oil (0...160 °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 mm²
AWG gauge	AWG 20...AWG 14
Cable entry	Cable gland 7...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	9790.05 psi (675 bar)
Destruction pressure	19580.10 psi (1350 bar)
Pressure actuator	Piston
Materials in contact with fluid	PTFE Steel Brass FPM, FKM
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	159.54...2741.21 psi (11...189 bar)
Natural differential at low setting	246.56 psi (17 bar)
Natural differential at high setting	609.16 psi (42 bar)
Maximum permissible pressure - per cycle	5438.92 psi (375 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 EN/IEC 60947-1 300 V conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	EN/IEC 60947-1 6 kV
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	4.45 in (113 mm)
Depth	3.35 in (85 mm)
Width	1.81 in (46 mm)
Net weight	1.65 lb(US) (0.75 kg)

Environment

Standards	UL 508 CSA C22.2 No 14 EN/IEC 60947-5-1 CE
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 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 EN/IEC 60529

Packing Units

Package 1 Weight	0.00 lb(US) (0.001 kg)
Package 1 Height	0.600 dm
Package 1 width	1.050 dm
Package 1 Length	1.400 dm

Offer Sustainability

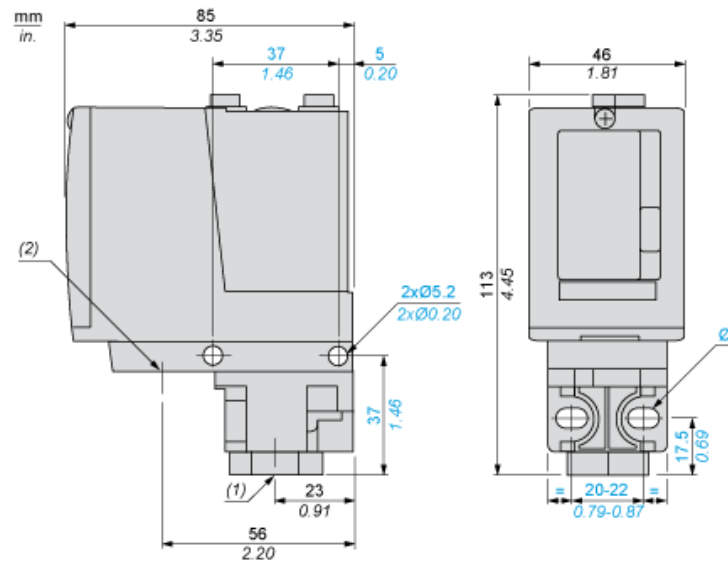
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes

RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

Contractual warranty

Warranty	18 months
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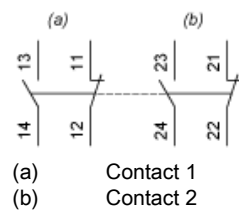
Dimensions



- (1) 1 fluid entry, tapped G1/4 (BSP female)
(2) 1 electrical connections entry, tapped M20 x 1.5
Ø : 2 elongated holes Ø 5.2 x 6.7

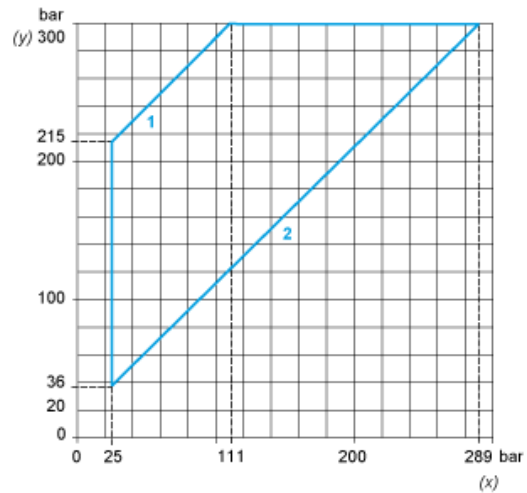
Wiring Diagram

Terminal Model



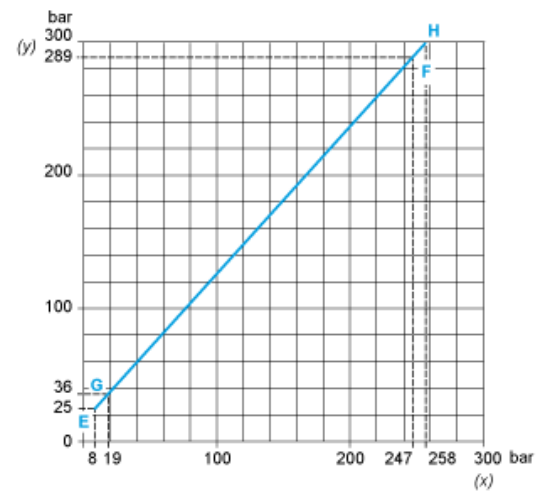
Operating Curves

High Setting Tripping Points of Contacts 1 and 2

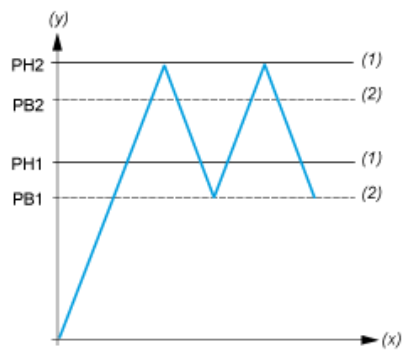


(y) PH2 setting (rising pressure)
(x) PH1 setting (rising pressure)
1 : Maximum differential
2 : Minimum differential

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