

Product data sheet

Characteristics

XMLA002A2S12

pressure switch XMLA 2.5 bar - fixed scale 1 threshold - 1 C/O



Main

Range of product	OsiSense XM
Product or component type	Electromechanical pressure sensor
Pressure sensor type	Electromechanical pressure sensor
Device short name	XMLA
Pressure sensor size	36.26 psi (2.5 bar)
Controlled fluid	Air (0...70 °C) Fresh water 32...158 °F (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 ²
AWG gauge	AWG 20...AWG 14
Cable entry	Cable gland 0.28...0.51 in (7...13 mm)
Contacts type and composition	1 C/O
Product specific application	-
Pressure switch type of operation	Detection of 1 single threshold
Electrical circuit type	Control circuit
Scale type	Fixed differential
Local display	With
Adjustable range of switching point on rising pressure	2.18...36.26 psi (0.15...2.5 bar)
Adjustable range of switching point on falling pressure	0.29...34.37 psi (0.02...2.37 bar)
Maximum permissible accidental pressure	130.53 psi (9 bar)
Destruction pressure	261.07 psi (18 bar)
Pressure actuator	Diaphragm
Materials in contact with fluid	Nitrile Zinc alloy
Enclosure material	Zinc alloy
Line 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

Natural differential at low setting	1.89 psi (0.13 bar) +/- 0.03 bar
Natural differential at high setting	1.89 psi (0.13 bar) +/- 0.03 bar
Maximum permissible pressure - per cycle	72.52 psi (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 EN/IEC 60947-1 300 V conforming to CSA C22.2 No 14

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[Uimp] rated impulse withstand voltage	6 kV EN/IEC 60947-1
Auxiliary contacts operation	Snap action
Contacts material	Silver contacts
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	8000000 cycles
Setting	External
Height	6.22 in (158 mm)
Depth	3.05 in (77.5 mm)
Width	1.38 in (35 mm)
Net weight	2.19 lb(US) (0.995 kg)

Environment

Standards	CE UL 508 CSA C22.2 No 14 EN/IEC 60947-5-1
Product certifications	UL CCC BV LROS (Lloyds register of shipping) EAC CSA
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 EN/IEC 60529

Ordering and shipping details

GTIN	03389110748482
Nbr. of units in pkg.	1
Package weight(Lbs)	34.92 oz (990 g)

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.36 in (6 cm)
Package 1 width	5.71 in (14.5 cm)
Package 1 Length	3.15 in (8 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
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
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

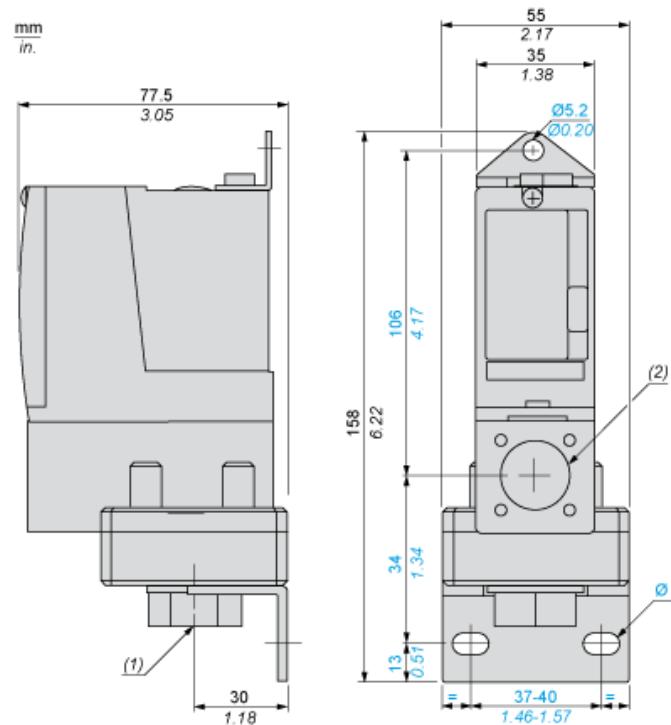
Product Environmental Profile

Contractual warranty

Warranty

18 months

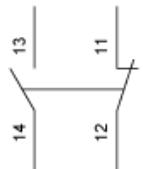
Dimensions



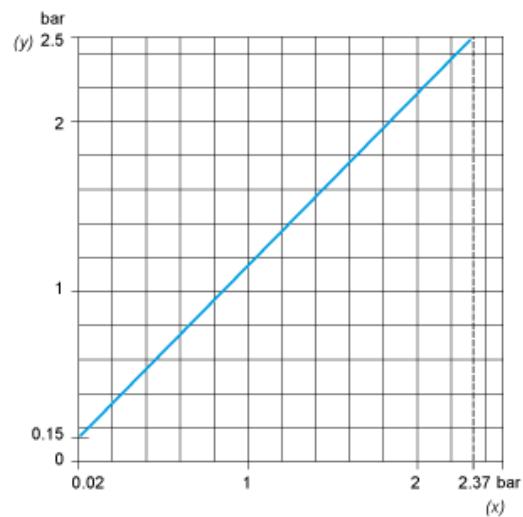
(1) 1 fluid entry, tapped G1/4 (BSP female)
(2) 1 electrical connections entry, tapped M20 x 1.5
Ø : 2 elongated holes Ø 10.2 x 5.2

Wiring Diagram

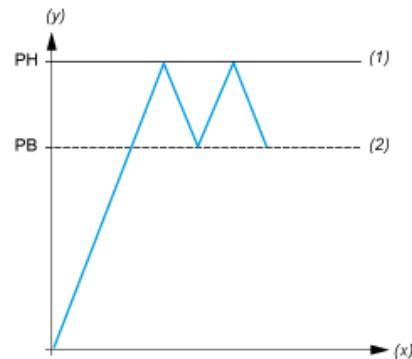
Terminal Model



Operating Curves



(y) Rising pressure
(x) Falling pressure



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