

Product data sheet

Characteristics

XMLA001R2S12

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



Main

Range of product	Telemecanique Pressure sensors XM
Product or component type	Electromechanical pressure sensor
Pressure sensor type	Electromechanical pressure sensor
Device short name	XMLA
Pressure rating	1 bar
Controlled fluid	Air (0...160 °C) 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 mm ² 1 connector ISO M20
AWG gauge	AWG 20...AWG 14
Cable entry	Cable gland 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	0.03...1 bar
Adjustable range of switching point on falling pressure	0.01...0.96 bar
Maximum permissible accidental pressure	2.25 bar
Destruction pressure	4.5 bar
Pressure actuator	Diaphragm
Materials in contact with fluid	304L stainless steel Steel FPM, FKM
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

Natural differential at low setting	0.02 bar (+/- 0.01 bar)
Natural differential at high setting	0.04 bar (+/- 0.01 bar)
Maximum permissible pressure - per cycle	1.25 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 IEC 60947-1 300 V conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-1
Auxiliary contacts operation	Snap action
Contacts material	Silver contacts
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	4000000 cycles
Setting	External
Height	162 mm
Depth	110 mm
Width	110 mm
Net weight	2.555 kg

Environment

Standards	CE IEC 60947-5-1 CSA C22.2 No 14 UL 508
Product certifications	CCC[RETURN]BV[RETURN]LROS (Lloyds register of shipping) [RETURN]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	2 gn conforming to IEC 60068-2-6 (f = 30...500 Hz)
Shock resistance	30 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

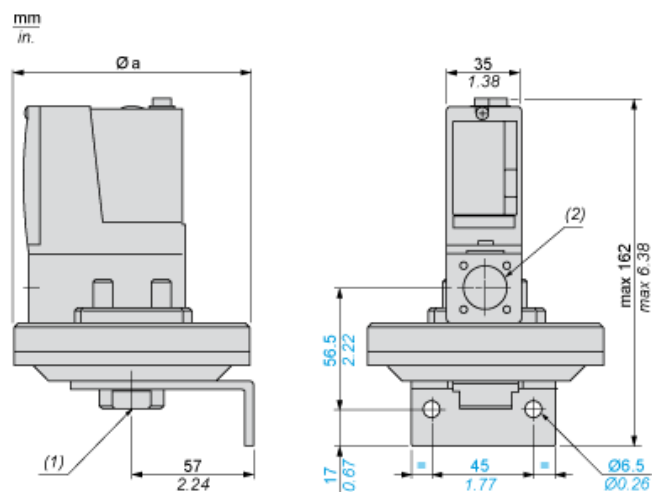
Offer Sustainability

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

Contractual warranty

Warranty	18 months
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Dimensions

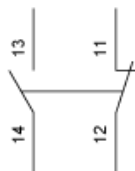


Ø a = 110 mm / 4.33 in.

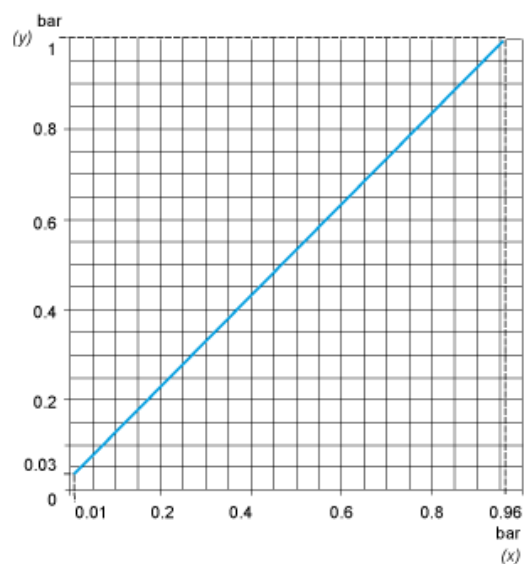
- (1) 1 fluid entry, tapped G1/4 (BSP female)
- (2) 1 electrical connections entry, tapped M20 x 1.5

Wiring Diagram

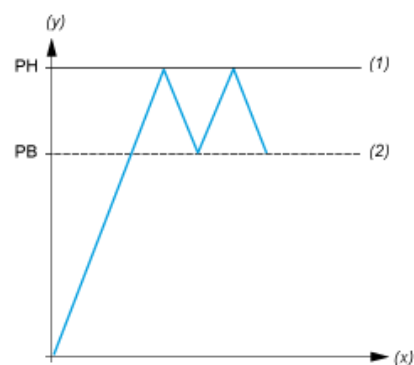
Terminal Model



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