

Product data sheet

Characteristics

XMLA160N2S14

pressure switch XMLA 160 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	160 bar
Controlled fluid	Air (0...160 °C) Corrosive fluid (0...160 °C)
Fluid connection type	PT 1/4 (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 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	10...160 bar
Adjustable range of switching point on falling pressure	4.5...142 bar
Maximum permissible accidental pressure	360 bar
Destruction pressure	720 bar
Pressure actuator	Piston
Materials in contact with fluid	FPM, FKM 316L stainless steel PTFE
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	5.5 bar (+/- 1 bar)
Natural differential at high setting	18 bar (+/- 3 bar)
Maximum permissible pressure - per cycle	200 bar
Terminal block type	4 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
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	6000000 cycles
Setting	External
Height	113 mm
Depth	75 mm
Width	35 mm
Net weight	0.75 kg

Environment

Standards	CE CSA C22.2 No 14 IEC 60947-5-1 UL 508
Product certifications	UL[RETURN]CSA[RETURN]BV[RETURN]CCC[RETURN]LR05 (Lloyds register of shipping)
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

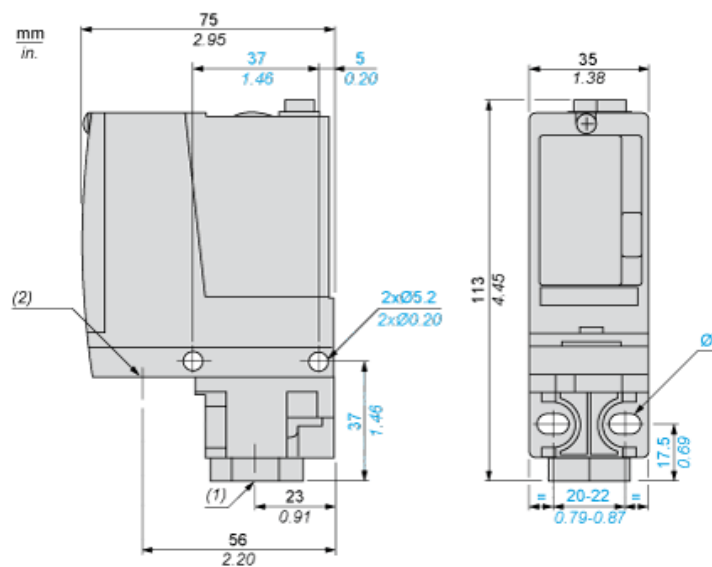
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty	18 months
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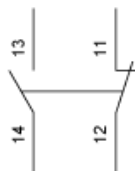
Dimensions



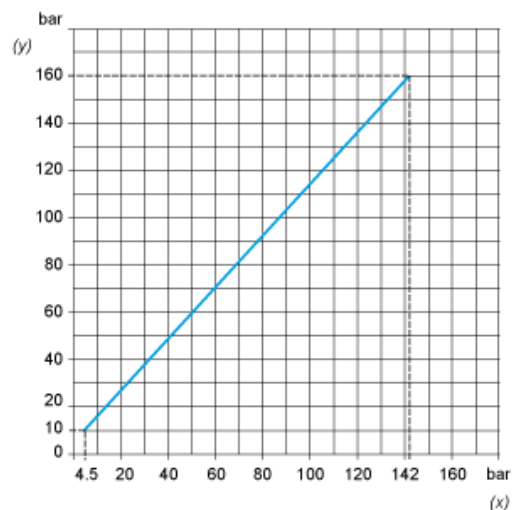
- (1) 1 fluid entry, tapped PT 1/4 (JIS B0203)
 (2) 1 electrical connections entry, tapped 1/2" PF (JIS B0202)
 Ø : 2 elongated holes Ø 5.2 x 6.7

Wiring Diagram

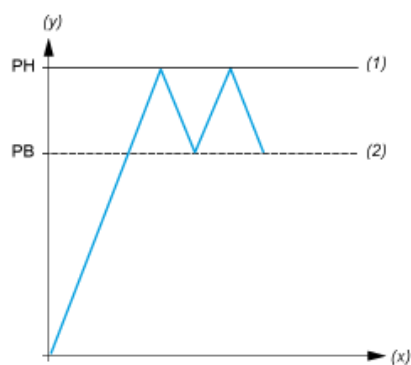
Terminal Model



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