

Product data sheet

XMLD010B1S11

Pressure switch, XMLD, pressure range 10 bar, fixed scale, 2CO, 2 stages

Main

Range of product	Telemecanique Pressure sensors XM
Pressure sensor type	Electromechanical pressure sensor
Product or component type	Electromechanical pressure sensor
Device short name	XMLD
Product specific application	Dual stage
ETIM classification	ETIM 9 - EC000243 - Pressure switch
Enclosure material	Zinc alloy
Materials in contact with fluid	Brass FPM, FKM
Pressure switch type of operation	Detection of 2 single thresholds
Operating position	Any position
Pressure sensor size	10 Bar
Maximum permissible accidental pressure	22.5 Bar
Maximum permissible pressure - per cycle	12.5 Bar
Destruction pressure	45 Bar
Pressure actuator	Diaphragm
Controlled fluid	Air (0-160 °C), fresh water (0-160 °C), hydraulic oil (0-160 °C)
Fluid connection type	G 1/4 (female) conforming to ISO 228
Local display	Without
AWG gauge	AWG 20...AWG 14
Scale type	Fixed differential
Setting	External
Product certifications	CSA UL
Standards	CE CSA C22.2 No 14 IEC 60947-5-1 UL 508
Indivisible sale quantity	1

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Complementary

Mechanical durability	5000000 cycles
Cable entry	Cable gland 9-13 mm
Repeat accuracy	2 %
Electrical connection	Screw-clamps terminals, 1 x 0.5...2 x 2.5 mm²
Electrical circuit type	Control circuit
Contacts type and composition	2 C/O snap action, silver contacts, 2 C/O staggered, silver contacts
Terminals description ISO n°1	(13-14-11-12)OF
Terminals description ISO n°2	(23-24-21-22)OF
Operating rate	120 cyc/mn
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-1
[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
[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
Resistance across terminals	25 mOhm conforming to IEC 255-7 category 3, 25 mOhm conforming to NF C 93-050 method A
Electrical shock protection class	Class I conforming to IEC 1140, class I conforming to IEC 536, class I conforming to NF C 20-030
Short-circuit protection	10 A cartridge fuse, type gG (gI)
Terminal block type	8 terminals
Natural differential at low setting	0.45 bar
Natural differential at high setting	0.6 bar
Height	113 mm
Width	46 mm
Depth	85 mm
Product weight	0.705 kg

Environment

IP degree of protection	IP66 conforming to IEC 60529
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Shock resistance	50 gn conforming to IEC 60068-2-27
Vibration resistance	4 gn conforming to IEC 60068-2-6 (f = 30-500 Hz)
Protective treatment	TC standard version

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: 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. For more information go to www.P65Warnings.ca.gov

Warranty

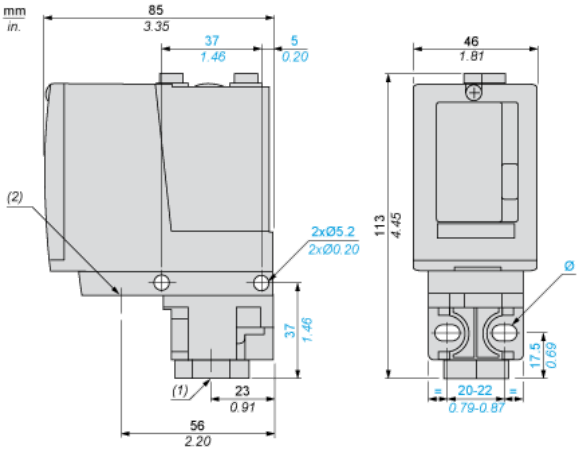
Warranty	18 months

Packing Units

Country of origin	CZ (Czech Republic) MA (Morocco)
Unit type of package 1	PCE
Number of units in package 1	1
New Package 1 GTIN-13	3666916026175
Package 1 height	15.2 cm
Package 1 width	15.5 cm
Package 1 length	15.1 cm
Package 1 weight	0.705 kg
Unit type of package 2	S02
Number of units in package 2	10
New Package 2 GTIN 14	13666916026172
Package 2 height	15 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	9.205 kg
New Package 3 GTIN 14	23666916026179

Technical Drawings

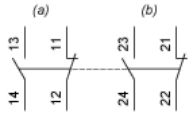
Dimensions



- (1) 1 fluid entry, tapped G1/4 (BSP female)
- (2) 1 electrical connections entry, tapped Pg 13.5
- Ø : 2 elongated holes Ø 5.2 x 6.7

Wiring Diagram

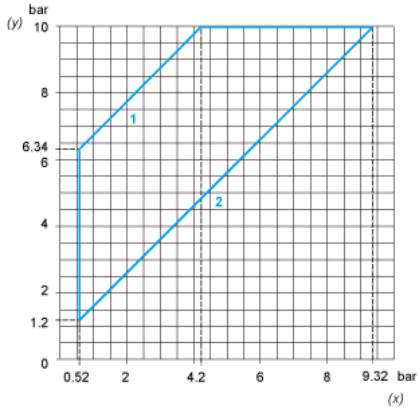
Terminal Model



- (a) Contact 1
- (b) Contact 2

Operating Curves

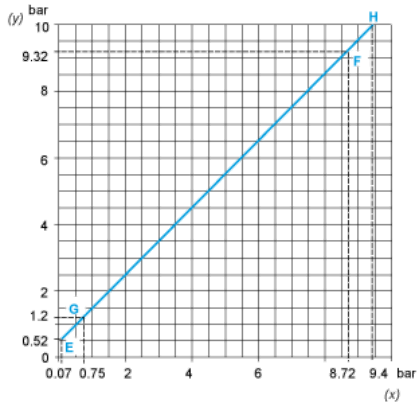
High Setting Tripping Points of Contacts 1 and 2



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

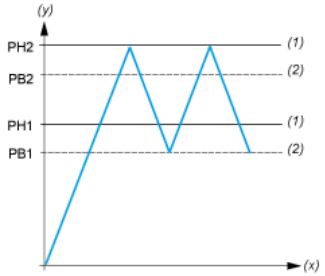
Operating Curves

Natural Differential of Contacts 1 and 2



- (y) PH2 setting (rising pressure)
- (x) PH1 setting (rising pressure)
- 1 : Maximum differential
- 2 : Minimum differential
- (y) Rising pressure
- (x) Falling pressure
- EF : Contact 1
- GH : Contact 2

Natural Differential of Contacts 1 and 2



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