

Product data sheet

XMLB500D2S11

Pressure switch, XMLB, pressure range 500 bar, adjustable scale, 1CO, 2 thresholds

Main

Range of product	Telemecanique Pressure sensors XM
Pressure sensor type	Electromechanical pressure sensor
Product or component type	Electromechanical pressure sensor
Device short name	XMLB
Product specific application	Not applicable
ETIM classification	ETIM 9 - EC000243 - Pressure switch
Enclosure material	Zinc alloy
Materials in contact with fluid	Brass FPM, FKM PTFE stainless steel steel
Pressure switch type of operation	Regulation between 2 thresholds
Operating position	Any position
Pressure sensor size	500 Bar
Maximum permissible accidental pressure	1125 Bar
Maximum permissible pressure - per cycle	625 Bar
Destruction pressure	2250 Bar
Pressure actuator	Piston
Possible differential maximum at high setting	300 Bar
Controlled fluid	Hydraulic oil (0-160 °C)
Fluid connection type	G 1/4 (female) conforming to ISO 228
Local display	With
AWG gauge	AWG 20...AWG 14
Scale type	Adjustable differential
Setting	External
Product certifications	BV CCC CSA LROS (Lloyds register of shipping) UL

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.
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Standards	CE CSA C22.2 No 14 IEC 60947-5-1 UL 508
Indivisible sale quantity	1

Complementary

Mechanical durability	3000000 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, 1 connector Pg 13
Electrical circuit type	Control circuit
Contacts type and composition	1 C/O
Contacts material	Silver contacts
Terminals description ISO n°1	(13-14-11-12)OF
Auxiliary contacts operation	Snap action
Operating rate	60 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)
Adjustable range of switching point on rising pressure	30.0000...500.0000 bar
Adjustable range of switching point on falling pressure	7.0000...447.4000 bar
Terminal block type	4 terminals
Possible differential minimum at low setting	23 bar (- 2.6 bar, + 3.8 bar)
Possible differential minimum at high setting	52.6 bar (- 14.8 bar, + 11.2 bar)
Height	113 mm
Width	35 mm
Depth	75 mm
Product weight	0.75 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

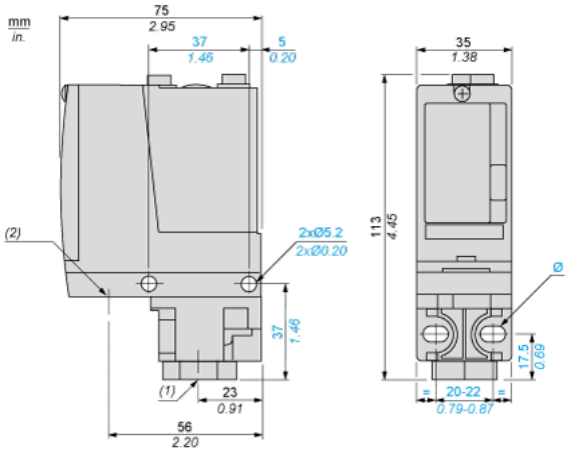
Warranty	18 months

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	3666916024997
Package 1 height	4.2 cm
Package 1 width	12.5 cm
Package 1 length	8 cm
Package 1 weight	0.75 kg
Unit type of package 2	S02
Number of units in package 2	13
New Package 2 GTIN 14	13666916024994
Package 2 height	15 cm
Package 2 width	30 cm
Package 2 length	40 cm
Package 2 weight	10.546 kg
Unit type of package 3	CAR
Number of units in package 3	1
New Package 3 GTIN 14	23666916024991
Package 3 height	8 cm
Package 3 width	4.2 cm
Package 3 length	12.5 cm
Package 3 weight	0.773 kg

Technical Drawings

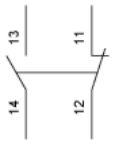
Dimensions



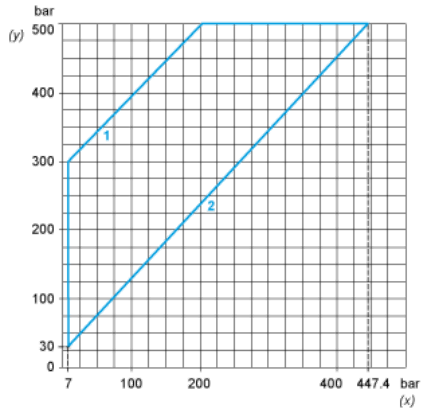
- (1) 1 fluid entry, tapped G1/4 (BSP female)
- (2) 1 electrical connections entry, tapped Pg 13.5
- Ø : 2 elongated holes Ø 5.2 x 6.7

Wiring Diagram

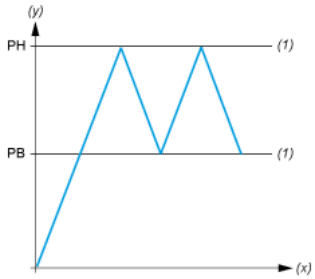
Terminal Model



Operating Curves



- (y) Rising pressure
- (x) Falling pressure
- 1 : Maximum differential
- 2 : Minimum differential



- (y) Rising pressure
- (x) Falling pressure
- 1 : Maximum differential
- 2 : Minimum differential
- (y) Pressure
- (x) Time
- (1) Adjustable value
- PH : High point
- PB : Below point