Product data sheet
Characteristics

XMLB070E2S11
Electromechanical pressure sensor, Pressure sensors XM, switch XMLB 70 bar, adjustable scale 2 thresholds, 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	XMLB
Pressure rating	70 bar
Controlled fluid	Fresh water (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 mm² 1 connector Pg 13
AWG gauge	AWG 20...AWG 14
Cable entry	Cable gland 9…13 mm
Contacts type and composition	1 C/O
Product specific application	-
Pressure switch type of operation	Regulation between 2 thresholds
Electrical circuit type	Control circuit
Scale type	Adjustable differential
Local display	With
Adjustable range of switching point on rising pressure	7…70 bar
Adjustable range of switching point on falling pressure	2.3…61.2 bar
Possible differential maximum at high setting	50 bar
Maximum permissible accidental pressure	160 bar
Destruction pressure	320 bar
Pressure actuator	Piston
Materials in contact with fluid	FPM, FKM PTFE Brass 316L stainless steel
Enclosure material	Zinc alloy
[In] 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

Possible differential minimum at low setting	4.7 bar (- 0.4 bar, + 0.7 bar)
Possible differential minimum at high setting	8.8 bar (- 0.6 bar, + 0.8 bar)
Maximum permissible pressure - per cycle	90 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 EN/IEC 60947-1 300 V conforming to CSA C22.2 No 14
[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 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	0.715 kg

Environment

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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	774 g
Package 1 Height	4.2 cm
Package 1 width	8.2 cm
Package 1 Length	12.5 cm
Unit Type of Package 2	S01
Number of Units in Package 2	5
Package 2 Weight	4.029 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

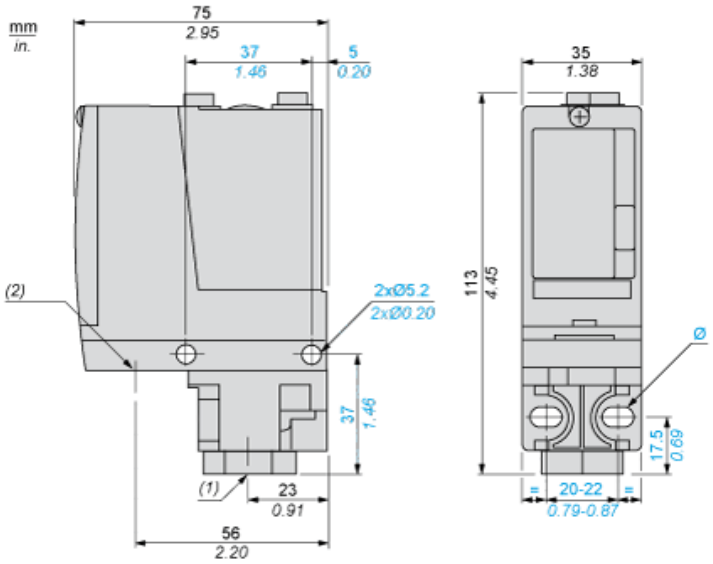
Offer Sustainability

Sustainable offer status	Green Premium product
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

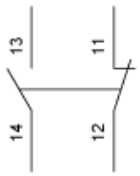
Dimensions



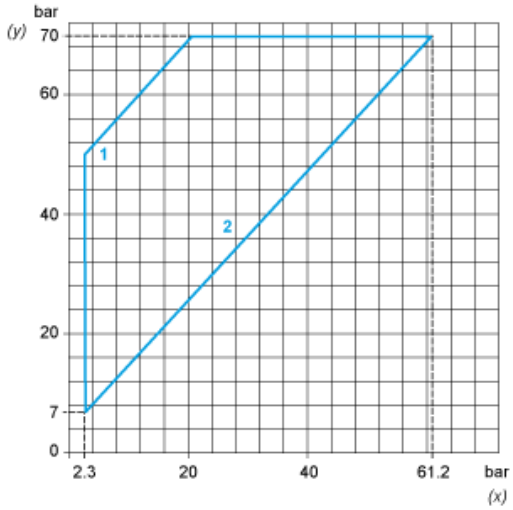
(1) 1 fluid entry, tapped G1/4 (BSP female)
(2) 1 electrical connections entry, tapped Pg 13.5
Ø : 2 elongated holes Ø 5.2 x 6.7

Wiring Diagram

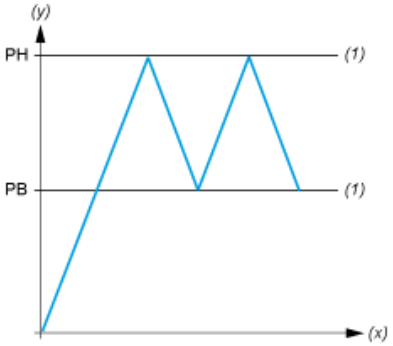
Terminal Model



Operating Curves



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



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