Product data sheet
Characteristics

XMLD160D1S13
Electromechanical pressure sensor, Pressure sensors XM, switch XMLD 160 bar, 2 stages fixed scale, 2 C/O

Main

Range of Product	OsiSense XM
Product or Component Type	Electromechanical pressure sensor
Pressure sensor type	Electromechanical pressure sensor
Device short name	XMLD
Pressure Rating	2320.60 psi (160 bar)
Controlled fluid	Hydraulic oil 32…320 °F (0…160 °C))
Fluid connection type	1/4" - 18 NPTF (female)
Electrical connection	Screw-clamps terminals, 1 x 0.5...2 x 2.5 mm²
AWG gauge	AWG 20...AWG 14
Cable entry	Cable gland
Contacts type and composition	2 C/O snap action, silver contacts 2 C/O staggered, silver contacts
Product Specific Application	Dual stage
Pressure switch type of operation	Detection of 2 single thresholds
Electrical circuit type	Control circuit
Scale type	Fixed differential
Local display	Without
Maximum permissible accidental pressure	5221.36 psi (360 bar)
Destruction pressure	10442.72 psi (720 bar)
Pressure actuator	Piston
Materials in contact with fluid	FPM, FKM Brass PTFE Steel
Enclosure Material	Zinc alloy
Line Rated Current	3 A, B300, AC-15 (Ue = 120 V)EN/IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V)EN/IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V)EN/IEC 60947-5-1

Complementary

Spread between 2 stages	87.02…1203.81 psi (6…83 bar)
Natural differential at low setting	127.63 psi (8.8 bar)
Natural differential at high setting	290.08 psi (20 bar)
Maximum permissible pressure - per cycle	2900.75 psi (200 bar)
Terminal block type	8 terminals
Maximum operating rate	60 cyc/mn
Repeat accuracy	2 %
[Ui] rated insulation voltage	300 V UL 508 500 V EN/IEC 60947-1 300 V CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	6 kV EN/IEC 60947-1
Maximum resistance across terminals	25 MOhm IEC 255-7 category 3 25 mOhm NF C 93-050 method A
Short-circuit protection	10 A cartridge fuse gG (gl)
Mechanical durability	6000000 cycles

Setting	External
Height	4.45 in (113 mm)
Depth	3.35 in (85 mm)
Width	1.81 in (46 mm)
Net Weight	1.65 lb(US) (0.75 kg)

Environment

Standards	UL 508 CE EN/IEC 60947-5-1 CSA C22.2 No 14
Product Certifications	CSA EAC UL
Protective treatment	TC standard version
Ambient air temperature for operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…158 °F (-40…70 °C)
Operating position	Any position
Vibration resistance	4 gn 30…500 Hz)IEC 60068-2-6
Shock resistance	50 gn IEC 60068-2-27
Electrical shock protection class	Class I IEC 1140 Class I IEC 536 Class I NF C 20-030
IP degree of protection	IP66 conforming to EN/IEC 60529

Ordering and shipping details

Category	22661 - XMLA,B,C,D PRESSURE SWITCHES
Discount Schedule	DS2
GTIN	3389110944631
Nbr. of units in pkg.	1
Package weight(Lbs)	2.31 lb(US) (1.05 kg)
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.36 in (6 cm)
Package 1 width	4.13 in (10.5 cm)
Package 1 Length	5.51 in (14 cm)

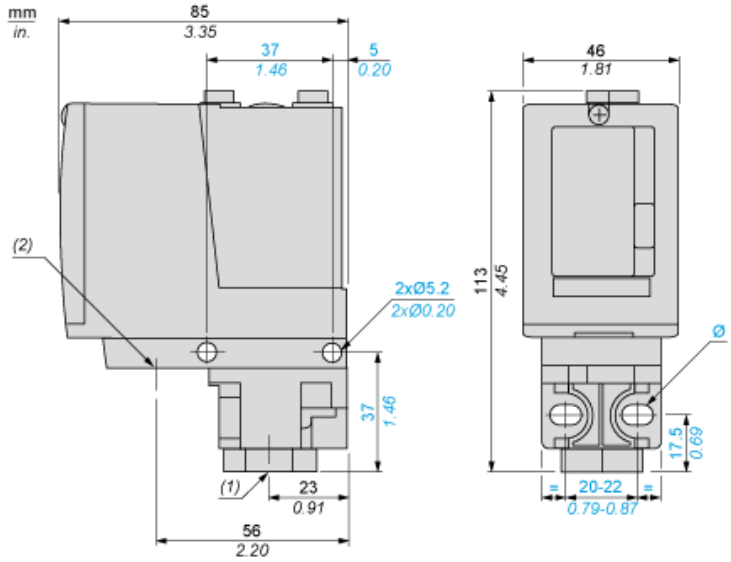
Offer Sustainability

Sustainable offer status	Green Premium product
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
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

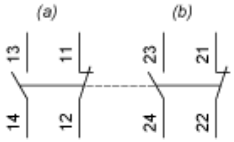
Dimensions



(1) 1 fluid entry, tapped 1/4" NPTF
(2) 1 electrical connections entry, tapped 1/2" NPT
Ø : 2 elongated holes Ø 5.2 x 6.7

Wiring Diagram

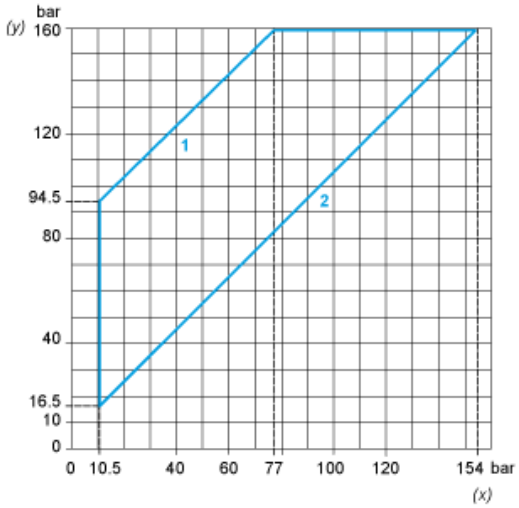
Terminal Model



(a) Contact 1
(b) Contact 2

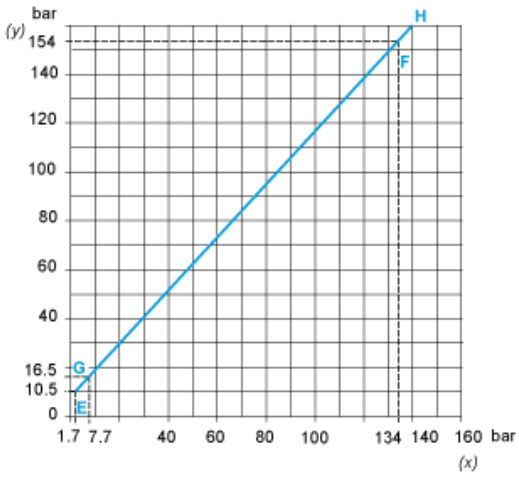
Operating Curves

High Setting Tripping Points of Contacts 1 and 2

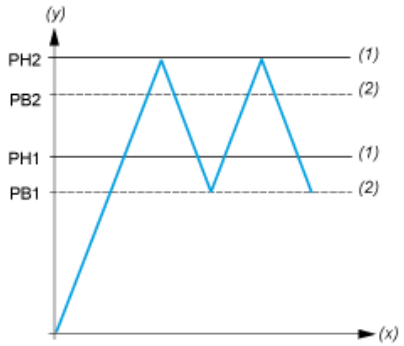


(y) PH2 setting (rising pressure)
(x) PH1 setting (rising pressure)
1 : Maximum differential
2 : Minimum differential

Natural Differential of Contacts 1 and 2



(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