XMLB001R2S11

pressure switch XMLB 1 bar - adjustable scale 2 thresholds - 1 C/O



Main

| Range of product Telemecanique Pressure sensors XM Product or component type Electromechanical pressure sensor Pressure sensor type Electromechanical pressure sensor XMLB Pressure rating 1 bar Controlled fluid Air (0160 °C) Hydraulic oil (0160 °C) Fluid connection type Electrical connection Screw-clamps terminals, 1 x 0.52 x 2.5 mm² 1 connector Pg 13 AWG gauge AWG 20AWG 14 Cable entry Cable gland 913 mm Contacts type and composition Preduct specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Destruction pressure Pressure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy In Jan AB300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1 | | | |
|--|----------------------------|--|--|
| Pressure sensor type | Range of product | Telemecanique Pressure sensors XM | |
| Device short name XMLB Pressure rating 1 bar Controlled fluid Air (0160 °C) Fluid connection type G 1/4 (female) conforming to ISO 228 Electrical connection Screw-clamps terminals, 1 x 0.52 x 2.5 mm² 1 connector Pg 13 AWG gauge AWG 20AWG 14 Cable entry Cable gland 913 mm Contacts type and composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Destruction pressure Pressure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy [In] rated current Zinc alloy Control circuit (Ue = 250 V) conforming to IEC 60947-5-1 | • | Electromechanical pressure sensor | |
| Pressure rating Controlled fluid Air (0160 °C) Hydraulic oil (0160 °C) Fluid connection type G 1/4 (female) conforming to ISO 228 Electrical connection Screw-clamps terminals, 1 x 0.52 x 2.5 mm² 1 connector Pg 13 AWG gauge AWG 20AWG 14 Cable entry Cable gland 913 mm Contacts type and composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Maying point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Pressure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy [In] rated current Ja A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 | Pressure sensor type | Electromechanical pressure sensor | |
| Controlled fluid Air (0160 °C) Hydraulic oil (0160 °C) Fluid connection type G 1/4 (female) conforming to ISO 228 Electrical connection Screw-clamps terminals, 1 x 0.52 x 2.5 mm² 1 connector Pg 13 AWG gauge AWG 20AWG 14 Cable entry Cable gland 913 mm Contacts type and composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Destruction pressure Destruction pressure Diaphragm Materials in contact with fluid Enclosure material Zinc alloy [In] rated current Air (0160 °C) Hydraulic oil (0160 °C) E14 (female) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC | Device short name | XMLB | |
| Hydraulic oil (Ó160 °C) Fluid connection type G 1/4 (female) conforming to ISO 228 Electrical connection Screw-clamps terminals, 1 x 0.52 x 2.5 mm² 1 connector Pg 13 AWG gauge AWG 20AWG 14 Cable entry Cable gland 913 mm Contacts type and composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Pressure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy In a Bayo, 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 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC | Pressure rating | 1 bar | |
| Electrical connection Screw-clamps terminals, 1 x 0.52 x 2.5 mm² 1 connector Pg 13 AWG gauge AWG 20AWG 14 Cable entry Cable gland 913 mm 1 C/O Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential Maximum permissible accidental pressure Destruction pressure Destruction pressure Destruction pressure Destruction pressure Diaphragm Materials in contact with fluid Enclosure material Zinc alloy [In] rated current Screw-clamps terminals, 1 x 0.52 x 2.5 mm² 1 connector Pg 13 AWG 20AWG 14 Cable gland 913 mm 1 C/O Control circuit Pegulation between 2 thresholds 0.00 Control circuit O.51 bar Screw-clamps terminals, 1 x 0.52 x 2.5 mm² 1 connector Pg 13 AWG 20AWG 14 Cable gland 913 mm 1 C/O Control circuit O.51 bar Scale type Adjustable differential 0.051 bar 0.010.94 bar 0.010.94 bar 0.75 bar 0.76 bar 0.77 bar 0.78 bar 0.79 bar 0.7 | Controlled fluid | | |
| AWG gauge AWG 20AWG 14 Cable entry Cable gland 913 mm Contacts type and composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Destruction pressure Destruction pressure Destruction pressure Diaphragm Materials in contact with fluid Enclosure material Zinc alloy In Jane AWG 20AWG 14 Cable gland 913 mm 1 C/O Regulation between 2 thresholds observed 1 thresholds observed 2 thresholds observed 2 thresholds observed 3 thresholds observed 4 thresholds obse | Fluid connection type | G 1/4 (female) conforming to ISO 228 | |
| Cable entry Contacts type and composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable differential maximum permissible accidental pressure Destruction pressure Destruction pressure Aigustable range of switching point on falling pressure Destruction pressure Diaphragm Materials in contact with fluid Enclosure material In rated current A B 300, 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 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC | Electrical connection | • | |
| Contacts type and composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure A.5 bar Pressure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy [In] rated current 3 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 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC | AWG gauge | AWG 20AWG 14 | |
| composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Diaphragm Materials in contact with fluid Enclosure material In rated current 3 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 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC | Cable entry | Cable gland 913 mm | |
| application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Destruction pressure Diaphragm Materials in contact with fluid Enclosure material Zinc alloy [In] rated current Regulation between 2 thresholds Regulation between 2 thresholds Octobrical Adjustable range of switching O.051 bar O.010.94 bar O.75 bar O. | | 1 C/O | |
| peration Electrical circuit type Control circuit Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure O.010.94 bar O.75 bar O.75 bar Maximum permissible accidental pressure Destruction pressure Possure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy In Jane Current Jane Calo V Conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC | • | - | |
| Scale type Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Pressure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy [In] rated current Adjustable differential o.051 bar O.010.94 bar O.051 bar O.010.94 bar O.051 bar O.010.94 bar O.051 bar O.07 | | Regulation between 2 thresholds | |
| Local display Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Perssure actuator Pressure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy [In] rated current 3 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 | Electrical circuit type | Control circuit | |
| Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Pressure actuator Diaphragm Materials in contact with fluid Enclosure material In rated current Adjustable range of switching 0.010.94 bar 0.75 bar 2.25 bar 2.25 bar 2.25 bar 304L stainless steel Steel FPM, FKM 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 | Scale type | Adjustable differential | |
| switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Destruction pressure Diaphragm Materials in contact with fluid Steel FPM, FKM 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 | Local display | With | |
| switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Pressure actuator Diaphragm Materials in contact with fluid Steel FPM, FKM 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 | switching point on rising | 0.051 bar | |
| maximum at high setting Maximum permissible accidental pressure Destruction pressure 4.5 bar Pressure actuator Diaphragm Materials in contact with fluid Steel FPM, FKM 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 | switching point on falling | 0.010.94 bar | |
| accidental pressure Destruction pressure 4.5 bar Pressure actuator Diaphragm Materials in contact with fluid Steel FPM, FKM 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 | | 0.75 bar | |
| Pressure actuator Diaphragm Materials in contact with fluid Steel FPM, FKM 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 | • | 2.25 bar | |
| Materials in contact with fluid 304L stainless steel Steel FPM, FKM 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 | Destruction pressure | 4.5 bar | |
| fluid Steel FPM, FKM 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 | Pressure actuator | Diaphragm | |
| [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 | | Steel | |
| 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 | Enclosure material | Zinc alloy | |
| | [In] rated current | 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 | |

Complementary

| Repeat accuracy | 2 % |
|---|------------------------|
| Maximum operating rate | 120 cyc/mn |
| Terminal block type | 4 terminals |
| Maximum permissible pressure - per cycle | 1.25 bar |
| Possible differential minimum at high setting | 0.06 bar (+/- 20 mbar) |
| Possible differential minimum at low setting | 0.04 bar (+/- 10 mbar) |

| [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 | 4000000 cycles | |
| Setting | External | |
| Height | 162 mm | |
| Depth | 110 mm | |
| Width | 110 mm | |
| Net weight | 2.575 kg | |

Environment

| Standards | CSA C22.2 No 14 CE UL 508 IEC 60947-5-1 |
|---------------------------------------|--|
| Product certifications | LROS (Lloyds register of shipping) [RETURN]CSA[RETURN]UL[RETURN]BV[RETURN]CCC |
| Protective treatment | TC standard version |
| Ambient air temperature for operation | -2570 °C |
| Ambient air temperature for storage | -4070 °C |
| Operating position | Any position |
| Vibration resistance | 2 gn conforming to IEC 60068-2-6 (f = 30500 Hz) |
| Shock resistance | 30 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

| 1 doking office | |
|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 20.000 cm |
| Package 1 Width | 18.500 cm |
| Package 1 Length | 18.500 cm |
| Package 1 Weight | 2.433 kg |
| Unit Type of Package 2 | S04 |
| Number of Units in Package 2 | 4 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 40.000 cm |
| Package 2 Length | 60.000 cm |
| Package 2 Weight | 10.468 kg |
| | |

Offer Sustainability

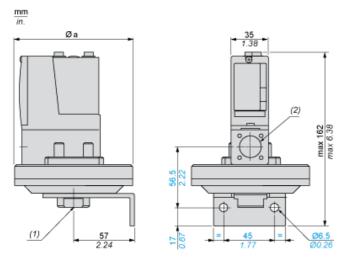
| Sustainable offer status | Green Premium product |
|--|---|
| Circularity Profile | No need of specific recycling operations |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, 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 |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |



Contractual warranty

Warranty 18 months

Dimensions



Ø a =110 mm / 4.33 in.

- (1) 1 fluid entry, tapped G1/4 (BSP female)
 (2) 1 electrical connections entry, tapped Pg 13.5

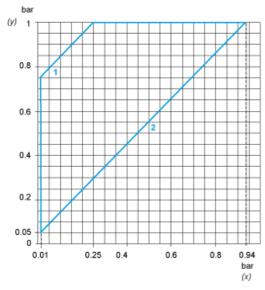
XMLB001R2S11

Wiring Diagram

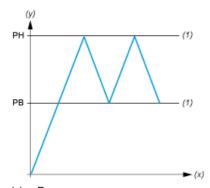
Terminal Model



Operating Curves



- Rising pressure
- (y) (x)
- Falling pressure Maximum differential
- Minimum differential



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