XMLB001S2S11

Electromechanical pressure sensor, Pressure sensors XM, switch XMLB 1 bar, adjustable scale 2 thresholds, 1 C/O





Main

| Range of product Product or component type Pressure sensor type Electromechanical pressure sensor Device short name XMLB Pressure rating 1 bar Controlled fluid Corrosive fluid (0160 °C) Fresh water (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 Pressure switch type of operation Electrical circuit type Control circuit Scale type 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 Pressure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy In Jan 20, C-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 1.5 A, B300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| type Pressure sensor type Pressure sensor type Electromechanical pressure sensor Device short name XMLB Pressure rating 1 bar Controlled fluid Corrosive fluid (0160 °C) Fresh water (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 permissible accidental pressure Destruction pressure Pressure actuator Diaphragm Materials in contact with fluid PTFE Enclosure material Zinc alloy ILC 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 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ | Range of product | OsiSense XM |
| Device short name XMLB Pressure rating 1 bar Controlled fluid Corrosive fluid (0160 °C) Fresh water (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 4.5 bar Pressure actuator Diaphragm Materials in contact with fluid PTFE Enclosure material Zinc alloy [In] rated current 3, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 | · . | Electromechanical pressure sensor |
| Pressure rating 1 bar Controlled fluid Corrosive fluid (0160 °C) Fresh water (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 Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure 4.5 bar Pressure actuator Diaphragm Materials in contact with fluid PTFE Enclosure material Zinc alloy [In] rated current 2.1 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 | Pressure sensor type | Electromechanical pressure sensor |
| Controlled fluid Corrosive fluid (0160 °C) Fresh water (0160 °C) | Device short name | XMLB |
| Fresh water (0160 °C) Fluid connection type | 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 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 Pressure actuator Materials in contact with fluid [In] rated current Screw-clamps terminals, 1 x 0.52 x 2.5 mm² 1 C/O Cable gland 913 mm Contact Symbol 100 Regulation between 2 thresholds Octoriol circuit Adjustable differential With 0.051 bar 0.051 bar 0.010.94 bar 0.075 bar 2.25 bar 2.25 bar 3.75 bar 3.16L stainless steel PTFE Enclosure material Zinc alloy [In] rated current 3. A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (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 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ | 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 Augustable range of switching point on falling pressure Destruction pressure Destruction pressure Diaphragm Materials in contact with fluid Enclosure material Zinc alloy In rated current Jan B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 | 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 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 PTFE Enclosure material In rated current Cable gland 913 mm 1 C/O Control circuit Adjustable differential 0.051 bar 0.010.94 bar 2.25 bar 2.25 bar 2.25 bar 3.5 bar Pressure actuator Diaphragm Materials in contact with fluid PTFE Enclosure material Zinc alloy In rated current 3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ | 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 PTFE Enclosure material Zinc alloy [In] rated current 1 C/O Regulation between 2 thresholds - adjustable resholds - adjustable differential 0.051 bar 0.010.94 bar 0.75 bar 0.75 bar 2.25 bar 2.25 bar 3.6 L stainless steel PTFE Enclosure material Zinc alloy [In] rated current 3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ | 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 EN/ IEC 60947-5-1 | 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 Pressure actuator Diaphragm Materials in contact with fluid PTFE Enclosure material Zinc alloy [In] rated current Regulation between 2 thresholds Regulation between 2 thresholds Postruction Ontrol circuit Adjustable differential 0.051 bar 0.010.94 bar 0.75 bar 2.25 bar 2.25 bar 3.6L stainless steel PTFE 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/ | | 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 Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Pessure actuator Diaphragm Materials in contact with fluid Enclosure material Zinc alloy [In] rated current Enclosure material Adjustable differential o.051 bar 0.010.94 bar 0.75 bar 2.25 bar 2.25 bar 3.16L stainless steel pTFE Enclosure material Zinc alloy [In] rated current 3.4, 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/ | • | - |
| 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 Pressure actuator Diaphragm Materials in contact with fluid PTFE 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/ | | Regulation between 2 thresholds |
| Local display Mith 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 Pressure actuator Diaphragm Materials in contact with fluid PTFE 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/ | 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 PTFE 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/ | 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 PTFE 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/ | 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 PTFE 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/ | 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 PTFE 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/ | switching point on falling | 0.010.94 bar |
| accidental pressure Destruction pressure 4.5 bar Pressure actuator Diaphragm Materials in contact with fluid PTFE 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/ | | 0.75 bar |
| Pressure actuator Diaphragm Materials in contact with fluid PTFE 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/ | | 2.25 bar |
| Materials in contact with fluid 316L stainless steel PTFE Enclosure material Zinc alloy [In] rated current 3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 | Destruction pressure | 4.5 bar |
| fluid PTFE 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/ | Pressure actuator | Diaphragm |
| [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 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/ | Enclosure material | Zinc alloy |
| | [In] rated current | 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/ |

Complementary

| Possible differential minimum at low setting | 0.04 bar (+/- 10 mbar) |
|-----------------------------------------------|------------------------|
| Possible differential minimum at high setting | 0.06 bar (+/- 20 mbar) |
| Maximum permissible pressure - per cycle | 1.25 bar |
| Terminal block type | 4 terminals |
| Maximum operating rate | 120 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 | 4000000 cycles | |
| Setting | External | |
| Height | 162 mm | |
| Depth | 110 mm | |
| Width | 110 mm | |
| Net weight | 2.575 kg | |

Environment

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

Packing Units

| i doming orme | | |
|------------------------------|----------|--|
| Unit Type of Package 1 | PCE | |
| Number of Units in Package 1 | 1 | |
| Package 1 Weight | 2.437 kg | |
| Package 1 Height | 18.5 cm | |
| Package 1 width | 20.5 cm | |
| Package 1 Length | 19 cm | |
| | | |

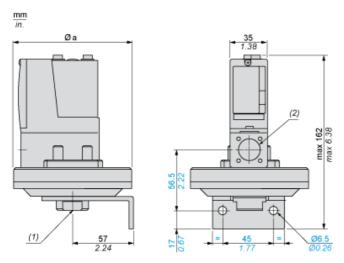
Offer Sustainability

| 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



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

Product data sheet Connections and Schema

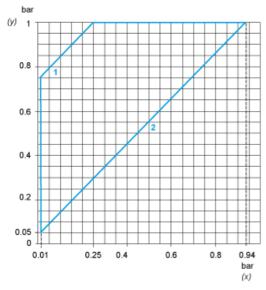
XMLB001S2S11

Wiring Diagram

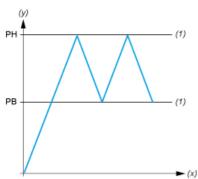
Terminal Model



Operating Curves



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



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