

# XMLB300E2S11

pressure switch XMLB 300 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 sensor size                                    | 4351.13 psi (300 bar)                                                                                                                                                                            |
| Controlled fluid                                        | Fresh water 32...320 °F (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 mm <sup>2</sup><br>1 connector Pg 13                                                                                                                   |
| AWG gauge                                               | AWG 20...AWG 14                                                                                                                                                                                  |
| Cable entry                                             | Cable gland 0.35...0.51 in (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  | 319.08...4351.13 psi (22...300 bar)                                                                                                                                                              |
| Adjustable range of switching point on falling pressure | 37.71...3814.49 psi (2.6...263 bar)                                                                                                                                                              |
| Possible differential maximum at high setting           | 2900.75 psi (200 bar)                                                                                                                                                                            |
| Maximum permissible accidental pressure                 | 9790.05 psi (675 bar)                                                                                                                                                                            |
| Destruction pressure                                    | 19580.10 psi (1350 bar)                                                                                                                                                                          |
| Pressure actuator                                       | Piston                                                                                                                                                                                           |
| Materials in contact with fluid                         | Brass<br>PTFE<br>FPM, FKM<br>316L stainless steel                                                                                                                                                |
| Enclosure material                                      | Zinc alloy                                                                                                                                                                                       |
| Line Rated Current                                      | 3 A, B300, AC-15 (Ue = 120 V) conforming to EN/IEC 60947-5-1<br>1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/IEC 60947-5-1<br>0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/IEC 60947-5-1 |

## Complementary

|                                               |                                 |
|-----------------------------------------------|---------------------------------|
| Possible differential minimum at low setting  | 19.4 bar (- 1.5 bar, + 1.7 bar) |
| Possible differential minimum at high setting | 37 bar (- 1 bar, + 4 bar)       |
| Maximum permissible pressure - per cycle      | 5438.92 psi (375 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<br>500 V conforming to EN/IEC 60947-1<br>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<br>25 mOhm conforming to NF C 93-050 method A                |
| Short-circuit protection               | 10 A cartridge fuse, type gG (gl)                                                                       |
| Mechanical durability                  | 3000000 cycles                                                                                          |
| Setting                                | External                                                                                                |
| Height                                 | 4.45 in (113 mm)                                                                                        |
| Depth                                  | 2.95 in (75 mm)                                                                                         |
| Width                                  | 1.38 in (35 mm)                                                                                         |
| Net weight                             | 1.65 lb(US) (0.75 kg)                                                                                   |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | CSA C22.2 No 14<br>CE<br>UL 508<br>EN/IEC 60947-5-1                                                  |
| Product certifications                | UL<br>LROS (Lloyds register of shipping)<br>CCC<br>CSA<br>EAC<br>BV                                  |
| 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 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<br>Class I conforming to IEC 536<br>Class I conforming to NF C 20-030 |
| IP degree of protection               | IP66 EN/IEC 60529                                                                                    |

## Ordering and shipping details

|                       |                                      |
|-----------------------|--------------------------------------|
| Category              | 22661 - XMLA,B,C,D PRESSURE SWITCHES |
| Discount Schedule     | DS2                                  |
| GTIN                  | 03389110714425                       |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 1 lb(US) (0.45 kg)                   |
| Returnability         | No                                   |
| Country of origin     | CZ                                   |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 4.92 in (12.5 cm) |
| Package 1 width        | 1.65 in (4.2 cm)  |
| Package 1 Length       | 3.23 in (8.2 cm)  |

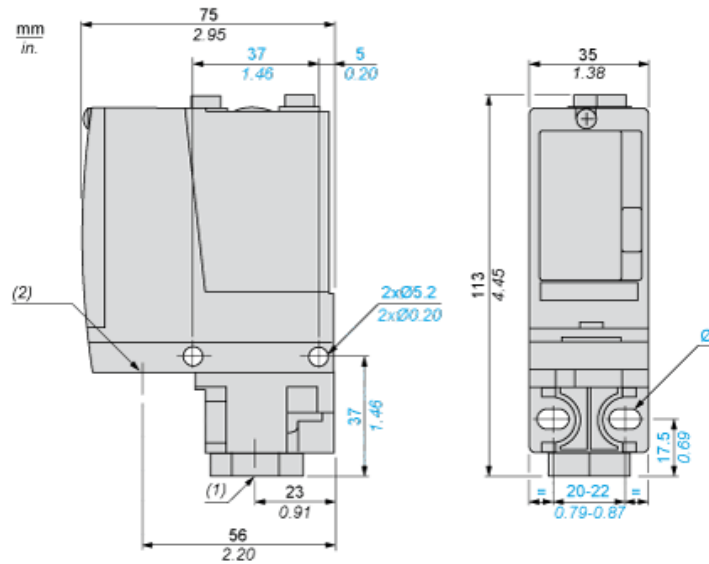
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                                                                                                                 |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                                                                                                    |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                                                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                                                                                                     |

## 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

---

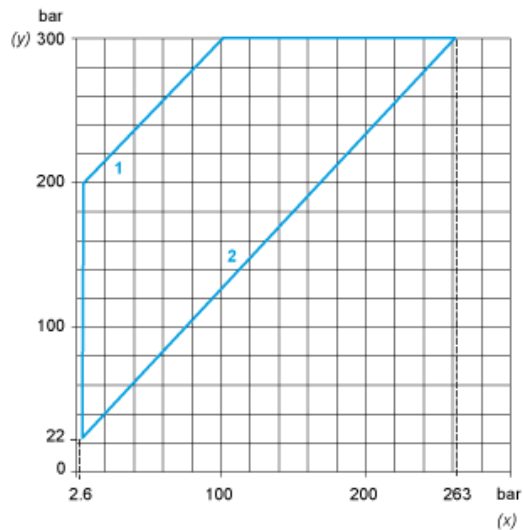
## Wiring Diagram

---

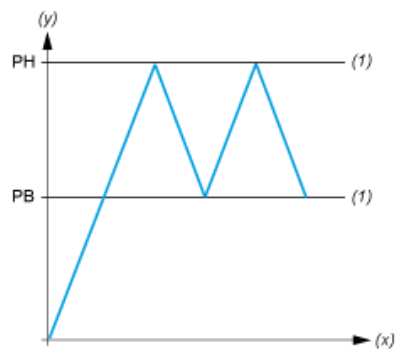
### Terminal Model



## 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