



## Main

|                                                         |                                               |
|---------------------------------------------------------|-----------------------------------------------|
| Range of product                                        | OsiSense XM                                   |
| Product or component type                               | Electromechanical pressure sensor             |
| Pressure sensor type                                    | Electromechanical pressure sensor             |
| Device short name                                       | XMLC                                          |
| Pressure sensor size                                    | 1015.26 psi (70 bar)                          |
| Controlled fluid                                        | Hydraulic oil (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 |
| AWG gauge                                               | AWG 20...AWG 14                               |
| Cable entry                                             | Cable gland 7...13 mm                         |
| Contacts type and composition                           | 2 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  | 101.53...1015.26 psi (7...70 bar)             |
| Adjustable range of switching point on falling pressure | 36.26...886.18 psi (2.5...61.1 bar)           |
| Possible differential maximum at high setting           | 870.23 psi (60 bar)                           |
| Maximum permissible accidental pressure                 | 2320.60 psi (160 bar)                         |
| Destruction pressure                                    | 4641.21 psi (320 bar)                         |
| Pressure actuator                                       | Piston                                        |
| Materials in contact with fluid                         | Brass<br>Steel                                |

|                    |                                                                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | PTFE<br>FPM, FKM                                                                                                                                                                                 |
| Enclosure material | Zinc alloy                                                                                                                                                                                       |
| [In] 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  | 65.27 psi (4.5 bar) +/- 0.8 bar)                                                                        |
| Possible differential minimum at high setting | 129.08 psi (8.9 bar) +/- 0.8 bar)                                                                       |
| Maximum permissible pressure - per cycle      | 1305.34 psi (90 bar)                                                                                    |
| Terminal block type                           | 8 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        | EN/IEC 60947-1 6 kV                                                                                     |
| Auxiliary contacts operation                  | Simultaneous, 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                         | 6000000 cycles                                                                                          |
| Setting                                       | External                                                                                                |
| Height                                        | 4.45 in (113 mm)                                                                                        |
| Depth                                         | 3.35 in (85 mm)                                                                                         |
| Width                                         | 1.81 in (46 mm)                                                                                         |
| Net weight                                    | 1.53 lb(US) (0.695 kg)                                                                                  |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | CSA C22.2 No 14<br>UL 508<br>CE<br>EN/IEC 60947-5-1                                                  |
| Product certifications                | EAC<br>CSA<br>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 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 conforming to EN/IEC 60529                                                                      |

## Packing Units

|                              |                  |
|------------------------------|------------------|
| Unit Type of Package 1       | PCE              |
| Number of Units in Package 1 | 1                |
| Package 1 Weight             | 30.69 oz (870 g) |
| Package 1 Height             | 2.36 in (6 cm)   |

|                  |                   |
|------------------|-------------------|
| Package 1 width  | 5.91 in (15 cm)   |
| Package 1 Length | 4.21 in (10.7 cm) |

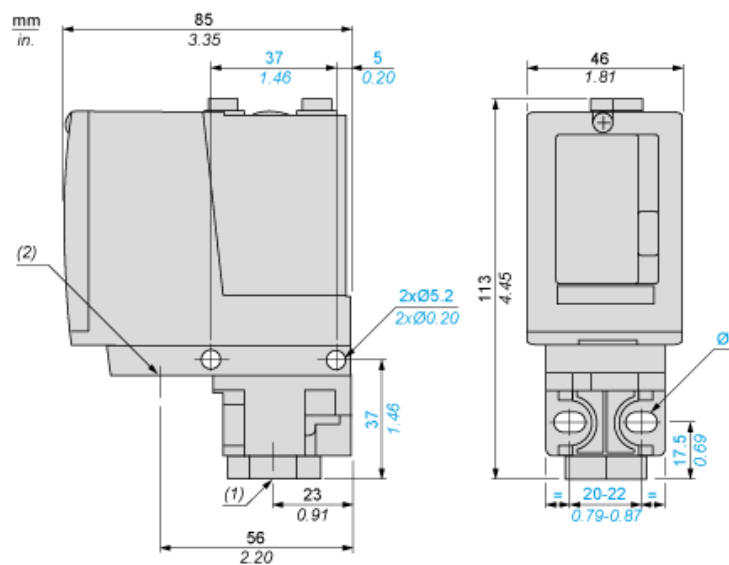
### Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                             |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                 |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><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



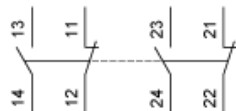
- (1) 1 fluid entry, tapped G1/4 (BSP female)  
 (2) 1 electrical connections entry, tapped M20 x 1.5  
 Ø : 2 elongated holes Ø 5.2 x 6.7

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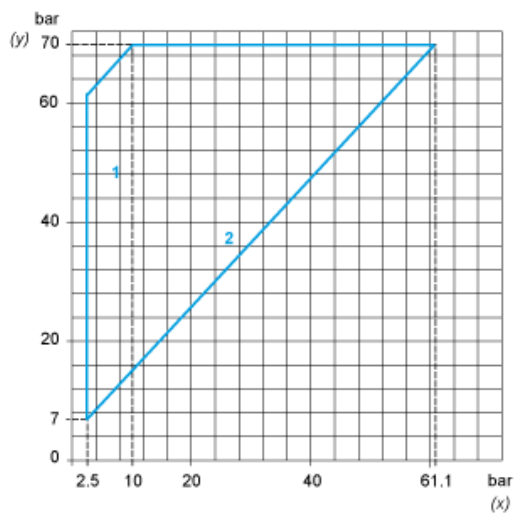
## Wiring Diagram

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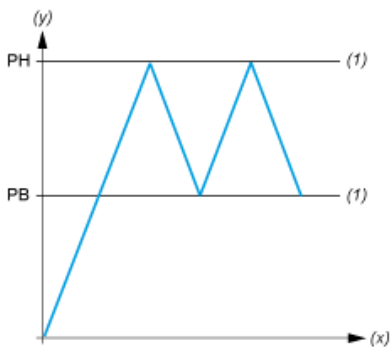
### Terminal Model



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