



## Main

|                                                         |                                                                                  |
|---------------------------------------------------------|----------------------------------------------------------------------------------|
| Range of product                                        | OsiSense XM                                                                      |
| Product or component type                               | Electromechanical pressure sensor                                                |
| Pressure sensor type                                    | Electromechanical pressure sensor                                                |
| Device short name                                       | XMLA                                                                             |
| Pressure sensor size                                    | 4351.13 psi (300 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 mm <sup>2</sup><br>1 connector ISO M20 |
| AWG gauge                                               | AWG 20...AWG 14                                                                  |
| Cable entry                                             | Cable gland 7...13 mm                                                            |
| Contacts type and composition                           | 1 C/O                                                                            |
| Product specific application                            | -                                                                                |
| Pressure switch type of operation                       | Detection of 1 single threshold                                                  |
| Electrical circuit type                                 | Control circuit                                                                  |
| Scale type                                              | Fixed differential                                                               |
| Local display                                           | With                                                                             |
| Adjustable range of switching point on rising pressure  | 290.08...4351.13 psi (20...300 bar)                                              |
| Adjustable range of switching point on falling pressure | 50.76...3843.50 psi (3.5...265 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                         | Steel<br>FPM, FKM<br>Brass<br>PTFE                                               |

|                    |                                                                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

|                                          |                                                                                                         |
|------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Natural differential at low setting      | 239.31 psi (16.5 bar) +/- 3 bar                                                                         |
| Natural differential at high setting     | 507.63 psi (35 bar) +/- 6 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                             | UL 508<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>CE                                                  |
| Product certifications                | CSA<br>LROS (Lloyds register of shipping)<br>UL<br>EAC<br>BV<br>CCC                                  |
| 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             | 26.81 oz (760 g)  |
| Package 1 Height             | 1.57 in (4 cm)    |
| Package 1 width              | 4.80 in (12.2 cm) |

|                              |                        |
|------------------------------|------------------------|
| Package 1 Length             | 3.23 in (8.2 cm)       |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 13                     |
| Package 2 Weight             | 22.49 lb(US) (10.2 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 11.81 in (30 cm)       |
| Package 2 Length             | 15.75 in (40 cm)       |

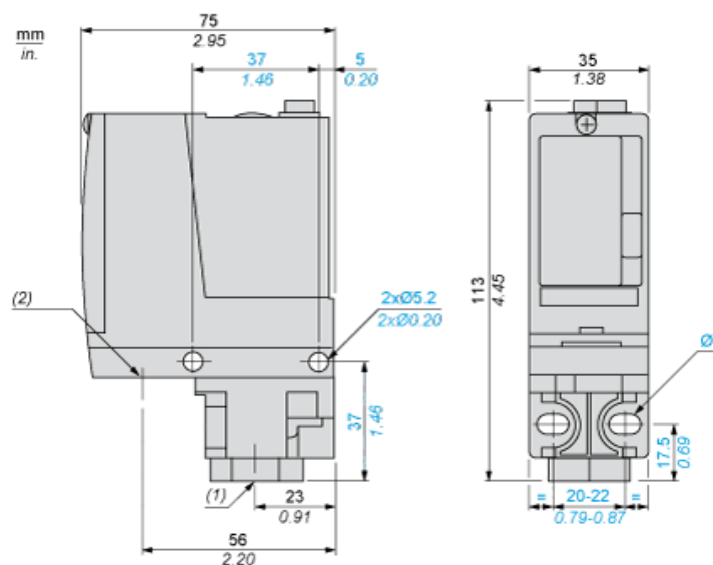
### Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| 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

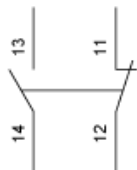


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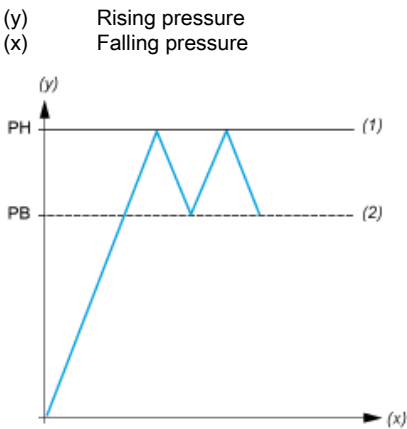
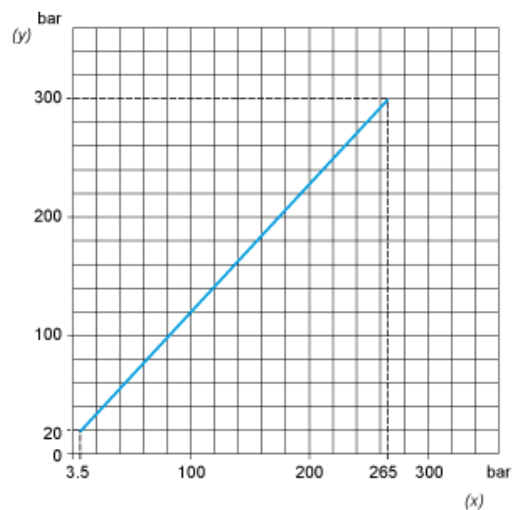
## Wiring Diagram

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## Terminal Model



Operating Curves



(y) Pressure  
(x) Time  
(1) Adjustable value  
(2) Non adjustable value  
PH : High point  
PB : Below point