

# Product data sheet

Specifications



## pressure switch XMLA 300 bar - fixed scale 1 threshold - 1 C/O

XMLA300D2S11

### Main

|                                                         |                                                                                                                                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                                        | Telemecanique Pressure sensors XM                                                                                                                                                                |
| Product or component type                               | Electromechanical pressure sensor                                                                                                                                                                |
| Pressure sensor type                                    | Electromechanical pressure sensor                                                                                                                                                                |
| Device short name                                       | XMLA                                                                                                                                                                                             |
| Pressure sensor size                                    | 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 mm²<br>1 connector Pg 13                                                                                                                               |
| AWG gauge                                               | AWG 20...AWG 14                                                                                                                                                                                  |
| Cable entry                                             | Cable gland 9...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  | 20...300 bar                                                                                                                                                                                     |
| Adjustable range of switching point on falling pressure | 3.5...265 bar                                                                                                                                                                                    |
| Maximum permissible accidental pressure                 | 675 bar                                                                                                                                                                                          |
| Destruction pressure                                    | 1350 bar                                                                                                                                                                                         |
| Pressure actuator                                       | Piston                                                                                                                                                                                           |
| Materials in contact with fluid                         | Steel<br>Brass<br>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

|                                          |                                                                                                         |
|------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Natural differential at low setting      | 16.5 bar (+/- 3 bar)                                                                                    |
| Natural differential at high setting     | 35 bar (+/- 6 bar)                                                                                      |
| Maximum permissible pressure - per cycle | 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 conforming to 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                                   | 113 mm                                                                                                  |
| Depth                                    | 75 mm                                                                                                   |
| Width                                    | 35 mm                                                                                                   |
| Product weight                           | 0.75 kg                                                                                                 |

Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Standards                             | UL 508<br>IEC 60947-5-1<br>CSA C22.2 No 14<br>CE<br>EN/IEC 60947-5-1<br>EN 60947-5-1                 |
| Product certifications                | UL<br>CSA<br>BV<br>LROS (Lloyds register of shipping)<br>CCC<br>EAC                                  |
| Protective treatment                  | TC standard version                                                                                  |
| Ambient air temperature for operation | -25...70 °C                                                                                          |
| Ambient air temperature for storage   | -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 Height             | 4.0 cm   |
| Package 1 Width              | 8.5 cm   |
| Package 1 Length             | 12.2 cm  |
| Package 1 Weight             | 749.0 g  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 13       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 9.981 kg |

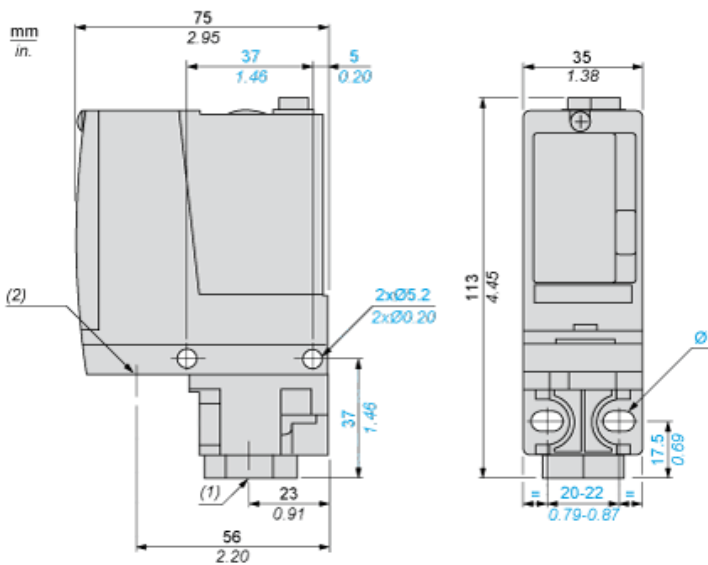
Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>                                                                                                                                                                                                                                                                                                         |
| 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="#">www.P65Warnings.ca.gov</a> |

Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions

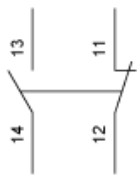


- (1) 1 fluid entry, tapped G1/4 (BSP female)  
(2) 1 electrical connections entry, tapped Pg 13.5  
Ø : 2 elongated holes Ø 5.2 x 6.7

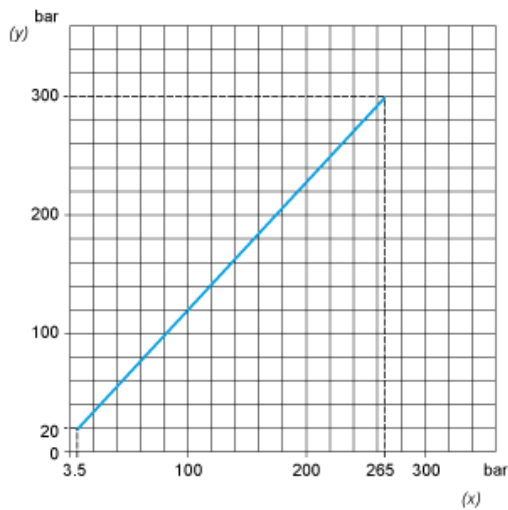
Wiring Diagram

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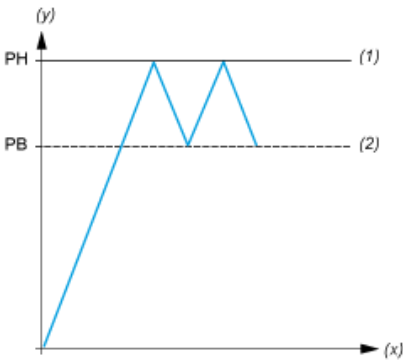
Terminal Model



Operating Curves



(y) Rising pressure  
(x) Falling pressure



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

Recommended replacement(s)