# Product data sheet
## Characteristics

# XMLA300N2S11
## pressure switch XMLA 300 bar - fixed scale 1 threshold - 1 C/O


### 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 rating | 300 bar |
| Controlled fluid | Air (0…160 °C)<br>Corrosive fluid (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 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 | FPM, FKM<br>PTFE<br>316L stainless steel |
| Enclosure material | Zinc alloy |
| [In] rated current | 3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1<br>1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1<br>0.1 A, R300, DC-13 (Ue = 250 V) conforming to 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 IEC 60947-1<br>300 V conforming to CSA C22.2 No 14 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to 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 |
| Net weight | 0.75 kg |

## Environment

| | |
|---|---|
| Standards | UL 508<br>IEC 60947-5-1<br>CSA C22.2 No 14<br>CE |
| Product certifications | CCC[RETURN]CSA[RETURN]LROS (Lloyds register of shipping)<br>[RETURN]UL[RETURN]BV |
| 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 IEC 60529 |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 12.5 cm |
| Package 1 Width | 4.2 cm |
| Package 1 Length | 8.5 cm |
| Package 1 Weight | 737.0 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 | 10.036 kg |

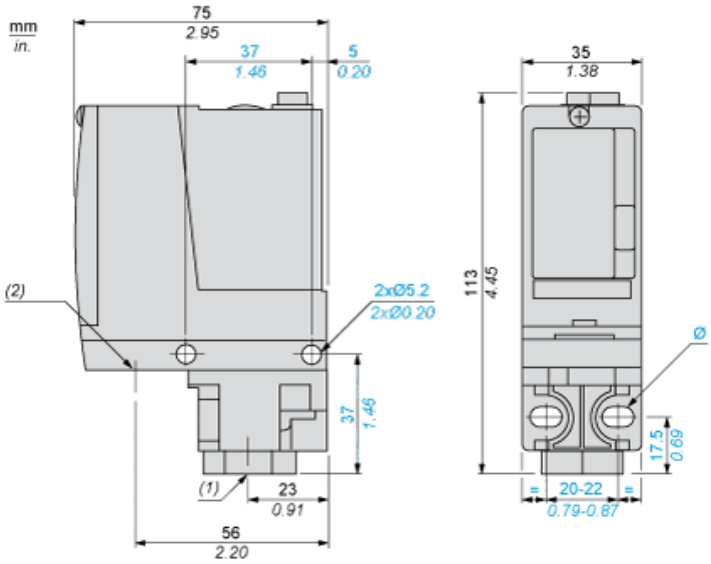
## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| Circularity Profile | No need of specific recycling operations |
| 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 www.P65Warnings.ca.gov |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |

## Contractual warranty

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

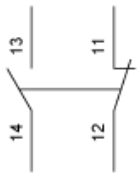
## Dimensions



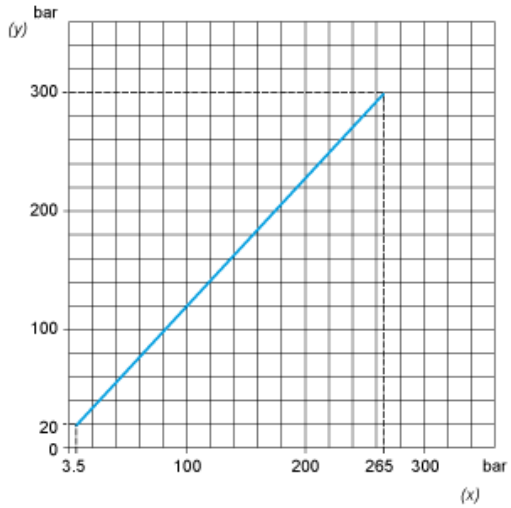

(1) 1 fluid entry, tapped G1/4 (BSP female)
(2) 1 electrical connections entry, tapped Pg 13.5
Ø : 2 elongated holes Ø 5.2 x 6.7

## Wiring Diagram

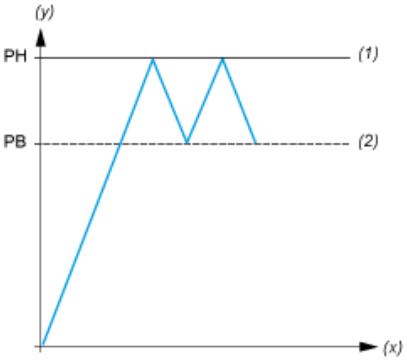
### Terminal Model



## Operating Curves




(y) Rising pressure
(x) Falling pressure




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