# Product data sheet
## Characteristics

# XMPE12C2431C
## Pressure sensors XM, pressure sensor XMP, 12 bar, 4xG 1/4 female, 3 NC, ON/OFF knob control




### Main

| | |
|---|---|
| Range of product | OsiSense XM |
| Pressure sensor type | Electromechanical pressure sensor |
| Pressure sensor name | XMP |
| Pressure sensor size | 12 bar |
| Fluid connection type | 4 x G 1/4 (female) conforming to ISO 228 |
| Controlled fluid | Air (0…70 °C)<br>Fresh water (0…70 °C)<br>Sea water (0…70 °C) |
| Cable entry | 2 entries tapped for Pg 13.5 cable gland conforming to NF C 68-300 |
| Contacts type and composition | 3 NC snap action |
| Product specific application | Bulk packaging |
| Pressure switch type of operation | Regulation between 2 thresholds |
| Electrical connection | Screw-clamp terminals, clamping capacity: minimum : 2 x 4 mm² |
| Electrical circuit type | Power circuit |
| Scale type | Adjustable differential |
| Local display | Without |
| Sale per indivisible quantity | 10 |

### Complementary

| | |
|---|---|
| Adjustable range of switching point on falling pressure | 0.3…10.3 bar |
| Adjustment range high setting | 1.3…12 bar |
| Possible differential minimum at low setting | 1 bar |
| Possible differential minimum at high setting | 1.7 bar |
| Possible differential maximum at high setting | 8.4 bar |
| Destruction pressure | 30 bar |
| Type of decompression valve | Straight valve instant connection |
| Control type | ON/OFF knob |
| Terminal block type | 6 terminals |
| Pressure actuator | Diaphragm |
| Materials in contact with fluid | Chromated zinc alloy<br>Canvas covered nitrile |
| Enclosure material | PA impregnated with fibreglass |
| Operating position | Any position |
| Maximum operating rate | 10 cyc/mn |
| Repeat accuracy | 3.5 % |
| [Ui] rated insulation voltage | 500 V conforming to EN/IEC 60947-1 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to EN/IEC 60947-1 |
| Maximum resistance across terminals | 25 MOhm conforming to IEC 60255-7 category 3<br>25 MOhm conforming to NF C 93-050 method A |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
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| | |
|---|---|
| Electrical durability | 1000000 Cycles 1.5 kW, operating rate <10 cyc/mn, load factor: 0.4, 400 V AC 3 phases<br>500000 Cycles 3 kW, operating rate <10 cyc/mn, load factor: 0.4, 400 V AC 3 phases<br>600000 Cycles 1.5 kW, operating rate <10 cyc/mn, load factor: 0.4, 230 V AC 3 phases<br>700000 cycles 2.2 kW, operating rate <10 cyc/mn, load factor: 0.4, 400 V AC 3 phases |
| Mechanical durability | 1000000 cycles |
| Setting | Nut |
| Net weight | 0.45 kg |
| Terminals description ISO n°1 | (5-6)NC<br>(3-4)NC<br>(1-2)NC |
| Depth | 98 mm |
| Height | 138 mm |
| Width | 57 mm |

## Environment

| | |
|---|---|
| Product certifications | EAC |
| Standards | CE<br>EN/IEC 60947-4-1 |
| Ambient air temperature for operation | -25…70 °C |
| Ambient air temperature for storage | -40…70 °C |
| Vibration resistance | 3 gn conforming to IEC 60068-2-6 (f = 10…500 Hz) |
| Shock resistance | 50 gn conforming to IEC 60068-2-27 |
| Electrical shock protection class | Class I conforming to IEC 60536 |
| IP degree of protection | IP54 conforming to EN/IEC 60529 |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 523.0 g |
| Package 1 Height | 10.5 cm |
| Package 1 Width | 32.0 cm |
| Package 1 Length | 32.5 cm |
| Unit Type of Package 2 | CAR |
| Number of Units in Package 2 | 10 |
| Package 2 Weight | 5.23 kg |
| Package 2 Height | 10.5 cm |
| Package 2 Width | 32.0 cm |
| Package 2 Length | 32.5 cm |
| Unit Type of Package 3 | S06 |
| Number of Units in Package 3 | 100 |
| Package 3 Weight | 65.3 kg |
| Package 3 Height | 73.5 cm |
| Package 3 Width | 60.0 cm |
| Package 3 Length | 80.0 cm |

## Offer Sustainability

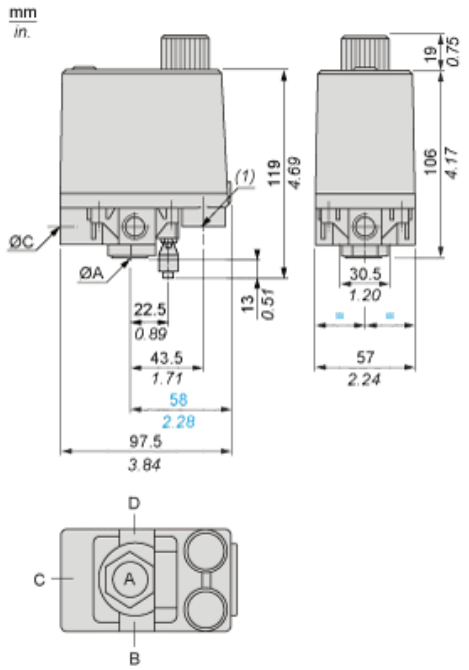
| | |
|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |

## Contractual warranty

| | |
|---|---|
| Warranty | 18 mois |

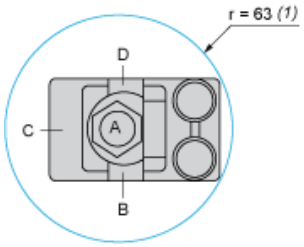
## Dimensions

### With Straight, Instant Connection, Decompression Valve




ØA = G 1/4
ØB =
ØC =
ØD =
(1) 2 tapped entries for Pg 13.5

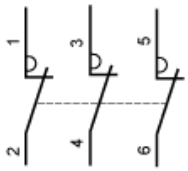
## Minimum Mounting Clearance




ØA = G 1/4 (female)
ØB =
ØC =
ØD =
(1) Minimum clearance zone for screwing-on pressure switch at point A

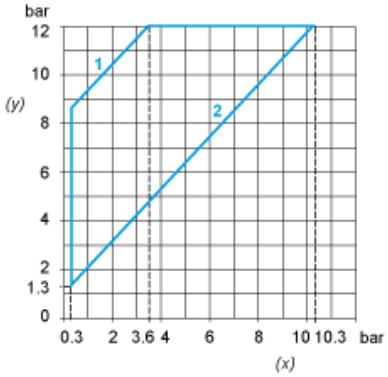
## Wiring Diagram

### Terminal Connections

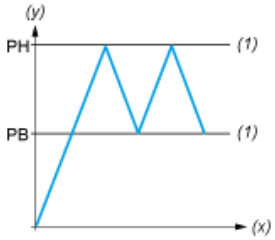


## Curves

### 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