

# XMPA12B2133

pressure sensor XMP - 12 bar - G 1/4 female -  
2 NC - without control type



## Main

|                                   |                                                                           |
|-----------------------------------|---------------------------------------------------------------------------|
| Range of product                  | OsiSense XM                                                               |
| Pressure sensor type              | Electromechanical pressure sensor                                         |
| Pressure sensor name              | XMP                                                                       |
| Pressure sensor size              | 12 bar                                                                    |
| Fluid connection type             | 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     | 2 NC snap action                                                          |
| Product specific application      | -                                                                         |
| Pressure switch type of operation | Regulation between 2 thresholds                                           |
| Electrical connection             | Screw-clamp terminals, clamping capacity: minimum : 2 x 4 mm <sup>2</sup> |
| Electrical circuit type           | Power circuit                                                             |
| Scale type                        | Adjustable differential                                                   |
| Local display                     | Without                                                                   |
| Sale per indivisible quantity     | 1                                                                         |

## 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                             | Without                                                                                          |
| Control type                                            | Without                                                                                          |
| Terminal block type                                     | 4 terminals                                                                                      |
| Pressure actuator                                       | Diaphragm                                                                                        |
| Materials in contact with fluid                         | Canvas covered nitrile<br>Chromated zinc alloy                                                   |
| Enclosure material                                      | PA impregnated with fibreglass                                                                   |
| Operating position                                      | Any position                                                                                     |
| 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                                                                |
| Resistance across terminals                             | <= 25 MOhm conforming to IEC 60255-7 category 3<br><= 25 MOhm conforming to NF C 93-050 method A |

|                               |                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                                                                                                                 |
| Terminals description ISO n°1 | (1-2)NC<br>(3-4)NC                                                                                                                                                                                                                                                                                                                                                  |
| Depth                         | 98 mm                                                                                                                                                                                                                                                                                                                                                               |
| Height                        | 106 mm                                                                                                                                                                                                                                                                                                                                                              |
| Width                         | 57 mm                                                                                                                                                                                                                                                                                                                                                               |

## Environment

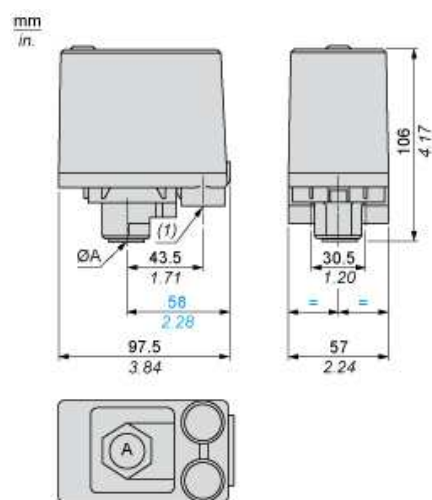
|                                            |                                                    |
|--------------------------------------------|----------------------------------------------------|
| Product certifications                     | EAC                                                |
| 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 (f = 10...500 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                           | 50 gn conforming to IEC 60068-2-27                 |
| Class of protection against electric shock | Class I conforming to IEC 60536                    |
| IP degree of protection                    | IP65 conforming to EN/IEC 60529                    |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0627 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product end of life instructions | Need no specific recycling operations                                                 |

## Dimensions

### Without Decompression Valve



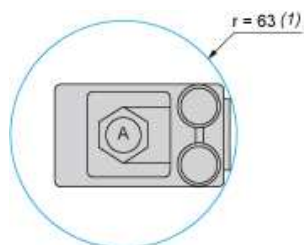
ØA = G 1/4

(1) 2 tapped entries for Pg 13.5

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Minimum Mounting Clearance

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ØA = G1/4

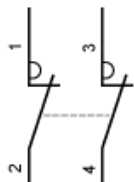
(1) Minimum clearance zone for screwing-on pressure switch at point A

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## Wiring Diagram

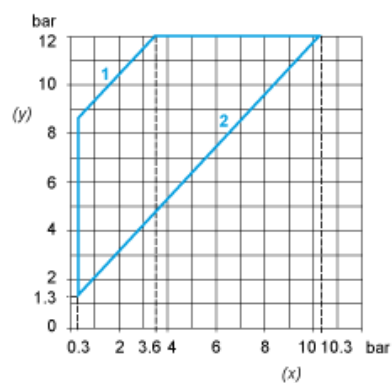
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### Terminal Connections



## Curves

### Operating Curves



- (y) Rising pressure  
(x) Falling pressure  
1 : Maximum differential  
2 : Minimum differential



- (y) Pressure  
(x) Time  
(t) Adjustable value  
PH : High point  
PB : Below point