## Presentation

Pressure switches OsiSense XMP are switches for power circuits (direct switching), with an adjustable differential.
They are used to control the pressure of water and air, up to 25 bar.

## Equipment fitted to the various models

## Case

Pressure switches OsiSense XMP, depending on the model, include:

- 3 types of case:
- bare case,
$\square$ case with On/Off knob (black): used as a switch for starting and stopping the installation,
$\square$ case with reset knob (yellow): necessary when the safety requirements of the system include tripping in the event of overpressure. Resetting is not automatic on return to normal pressure, and it can only be achieved by manually turning the "Reset" knob.

■ 2 degrees of protection:
$\square$ IP 54,

- IP 65 .


## Decompression valve

Depending on the model, 2 types of decompression valve can be fitted to pressure switches OsiSense XMP:
■ Straight, instant connection, decompression valve (connection by $\varnothing 6 \mathrm{~mm}$ plastic tube).
■ Straight, olive connection, decompression valve (connection by $\varnothing 6 \mathrm{~mm}$ plastic or metal tube).


## Setting

When setting XMP pressure switches, adjust the switching point on rising pressure $(\mathrm{PH})$ first and then the switching point on falling pressure (PB).

Switching point on rising pressure
The switching point on rising pressure ( PH ) is set by adjusting the screw-nut or knurled knob 1.
Tighten either the nut or knurled knob 1 to increase the high point switching value.

## Switching point on falling pressure

The switching point on falling pressure is set by adjusting screw-nut 2.
Tighten nut 2 to reduce the low point switching value (increase in differential).

| References: | Dimensions |
| :--- | :--- |
| pages 96 to 103 | page 105 |

## Electromechanical pressure switches OsiSense XM <br> For power circuits, OsiSense XMP

| Environment characteristics |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Conformity to standards |  | C€, IEC/EN 60947-4-1 |  |  |
| Product certifications |  | EAC |  |  |
| Ambient air temperature | ${ }^{\circ} \mathrm{C}$ | For operation: - $25 \ldots+70$ <br> For storage: $-40 \ldots+70$ |  |  |
| Fluids controlled |  | Air, fresh water, sea water ( $0 \ldots+70^{\circ} \mathrm{C}$ ) |  |  |
| Materials |  | Case: polyamide impregnated with fibreglass Component materials in contact with fluid: chromated zinc alloy (fluid entry), canvas covered nitrile (diaphragm) |  |  |
| Operating position |  | All positions |  |  |
| Vibration resistance |  | $3 \mathrm{gn} \mathrm{(10} \mathrm{\ldots 500} \mathrm{Hz)} \mathrm{conforming} \mathrm{to} \mathrm{IEC} \mathrm{60068-2-6}$ |  |  |
| Shock resistance |  | 50 gn , conforming to IEC 60068-2-27 |  |  |
| Electric shock protection |  | Class I conforming to IEC 60536 |  |  |
| Degree of protection |  | IP 54 conforming to IEC/EN 60529 or IP 65 for universal model |  |  |
| Operating rate | Op. cycles/h | $\leqslant 600$ |  |  |
| Repeat accuracy |  | <3.5\% |  |  |
| Fluid connection |  | G 1/4, $4 \times \mathrm{G} 1 / 4$ or G 3/8 (BSP female) conforming to NF E 03-005, ISO 228 |  |  |
| Electrical connection |  | 2 tapped entries for $\mathrm{n}^{\circ} 13$ (DIN Pg 13.5) cable gland |  |  |
| Contact block characteristics |  |  |  |  |
| Rated insulation voltage | V | Ui $=500$ conforming to IEC/EN 60947-1 |  |  |
| Rated impulse withstand voltage | v | U imp $=6 \mathrm{kV}$ conforming to IEC/EN 60947-1 |  |  |
| Type of contacts |  | One 2-pole 2 NC or 3-pole 3 NC contact, snap action |  |  |
| Resistance across terminals | $\mathrm{m} \Omega$ | $\leqslant 25$ conforming to NF C $93-050$ method A or IEC 255-7 category 3 |  |  |
| Terminal referencing |  | Conforming to CENELEC EN 50013 |  |  |
| Short-circuit protection |  | Cartridge fuse type Am |  |  |
| Connection |  | Screw clamp terminals. Minimum clamping capacity: $2 \times 4 \mathrm{~mm}^{2}$ |  |  |
| Electrical durability <br> Operating rate: 600 operating cycles/hour Load factor: 0.4 |  | Power | Number of operating cycles |  |
|  |  | kW | $\sim 400 \mathrm{~V}$, 3-phase | $\sim 230 \mathrm{~V}, 3$-phase |
|  |  | 1.5 | 1000000 | 600000 |
|  |  | 2.2 | 700000 | - |
|  |  | 3 | 500000 | - |



| Accessories: <br> page 104 | Dimensions: <br> page 105 |
| :--- | :--- |
| 96 | (e)Telemecanique <br> Sensors |



| Accessories: | Dimensions: |
| :--- | :--- |
| page 104 |  |

(if) Telemecanique


| Accessories: <br> page 104 | Dimensions: <br> page 105 |
| :--- | :--- |
| 98 | (e) Telemecanique |
| Sensors |  |


Accessories: $\quad$ Dimensions:
(e) Telemecanique


| $\begin{aligned} & \overline{\text { Accessories }} \\ & \text { page } 1044 \end{aligned}$ | $\begin{aligned} & \text { Dimensions: } \\ & \text { page } 105 \end{aligned}$ |
| :---: | :---: |
| 100 | (隼) Telemecanique |


$\overline{3.5 \ldots . .25 \text { bar ( } 50.75 \ldots . .362 .5 \mathrm{psi})}$
3 -pole 3 NC


References,
characteristics (continued)

Electromechanical pressure switches
OsiSense XMP, IP 65
Sizes 6 to 25 bar ( 87 to 362.5 psi )
Adjustable differential, for regulation between 2 thresholds Switches with 2-pole 2 NC or 3-pole 3 NC contact
Fluid connection

| Adjustable range of switching point (PH) (Rising pressure) | 1 1... 6 bar (14.5...87 psi) |  | 1.3...12 bar (18.855...174 psi) |  | 3.5...25 bar (50.75...362.5 psi) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type of contact | 2-pole 2 NC | 3 -pole 3NC | 2-pole 2 NC | 3-pole 3 NC | 2 -pole 2 NC | 3 -pole 3 NC |

References
Switches with straight decompression valve, olive connetion
 Weight (kg)
Complementary characteristics not shown under general characteristics (page 95

| Possible differential (subtract from PH to give PB) | 0.8 bar (11.6 psi) | 1 bar (14.5 psi) | 3.4 bar (49.3 psi) |
| :---: | :---: | :---: | :---: |
|  | 1.2 bar (17.4 psi) | 1.7 baar (24.6 psi) | 4.5 bar (65.2 psi) |
|  | 4.2 bar (60.9 psi) | 8.4 bar (121.8 psi) | 20 bar (290 psi) |
| Destruction pressure | $30 \mathrm{bar}(435 \mathrm{ps}$ ) |  | 100 bar (1450 psi) |
| Mechanical life | 1 million operating cycles |  |  |
| Cable entry | 2 entries tapped for ${ }^{\circ}{ }^{\circ} 13$ cable gland, conforming to $\mathrm{NF} \mathrm{C} 68-300$ ( (DINPg 13.5 ) |  |  |
| Adjustment of high setting point (PH) | By screw-nut |  |  |
|  | Diaphragm |  |  |




| Acoessones: <br> pase 104 | Dimensions: <br> page 105 |  |
| :--- | :--- | :--- |
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XMPMDR01

| References | Reference | Weight <br> kg |
| :--- | ---: | ---: |
| Description | XMAZL001 | 0.035 |
| Fixing bracket |  |  |
|    |  |  |
| Knurled adjustment knob, $\varnothing \mathbf{3 6 ~ m m}$ |  |  |
| fits over adjustment screws to facilitate setting |  |  |

13P cable gland
With anti pull-out ring (for cable Ø $6 \ldots 9 \mathrm{~mm}$ )
Without anti pull-out ring DE9PM1202 0.005 (for cable $\varnothing 6 \ldots 9 \mathrm{~mm}$ )

| With anti pull-out ring | DE9PM1203 | 0.005 |
| :--- | :--- | :--- | (for cable Ø 9... 12.5 mm )


| Description | For pressure <br> switch | Sold in lots of | Unit <br> reference | Weight <br> kg |
| :--- | :--- | :--- | :--- | ---: |
| Diaphragms | Size 6 bar | 50 | XMPZ31 | 0.005 |

Size 25 bar $50 \quad$ XMPZ33
0.005

Electromechanical pressure switches
OsiSense XM
For power circuits, OsiSense XMP
Accessories and replacement parts

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

XMP•25•••••
Fluid connection G $1 / 4$ or $4 \times \operatorname{GB} 1 / 4$ (female)
Without decompression valve


XMP•25•21・ゃ: $\varnothing$ A only = G 1/4 (female)
XMP•25•24••: $\varnothing \mathrm{A}=\varnothing \mathrm{B}=\varnothing \mathrm{C}=\varnothing \mathrm{D}=\mathrm{G} 1 / 4$ (female)
(1) 2 tapped entries for $n^{\circ} 13$ cable gland
(2) Minimum clearance zone for screwing-on pressure switch at point $A$

Fixing bracket XMAZL001
With straight, olive connection,
decompression valve


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