# Product data sheet
## Characteristics

# FSG9NE
## pressure switch FSG 4.6 bar - adjustable scale 2 thresholds - 2NC

### Main

| | |
|---|---|
| Range of product | OsiSense XM |
| Pressure sensor type | Electromechanical pressure sensor |
| Pressure sensor name | FSG |
| Pressure sensor size | 4.6 bar |
| Fluid connection type | R 1/4 (male) conforming to ISO 7 |
| Controlled fluid | Sea water (0...70 °C)<br>Fresh water (0...70 °C) |
| Cable entry | 2 entries incorporating Pg 13.5 plastic cable gland, cable outer diameter: 9...13 mm 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 |
| [In] rated current | 10 A at 250 V AC conforming to EN 60730-1 |
| Electrical connection | Screw-clamp terminals, clamping capacity: 1 x 1...2 x 2 mm² |
| Short circuit protection | 20 A cartridge fuse type gG |
| Scale type | Adjustable differential |
| Setting | Internal |
| Local display | Without |
| Electrical circuit type | Power circuit |

### Complementary

| | |
|---|---|
| Materials in contact with fluid | Nitrile<br>Nylon 6/6<br>Zinc plated steel |
| Enclosure material | PS |
| Operating position | Any position |
| Motor power kW | 2.2 kW/3 hp at 400 V AC, 3 phases<br>2.2 kW/3 hp at 230 V AC, 3 phases<br>1.5 kW/2 hp at 400 V AC, 1 phase<br>1.5 kW/2 hp at 230 V AC, 1 phase<br>1.1 kW/1.5 hp at 110 V AC, 3 phases<br>0.75 kW/1 hp at 110 V AC, 1 phase |
| Adjustable range of switching point on falling pressure | 0.3...3.4 bar |
| Adjustable range of switching point on rising pressure | 1.4...4.6 bar |
| Possible differential minimum at low setting | 1 bar |
| Possible differential minimum at high setting | 1.2 bar |
| Possible differential maximum at low setting | 2.1 bar |
| Possible differential maximum at high setting | 2.3 bar |
| Maximum permissible accidental pressure | 8 bar |
| Maximum permissible pressure - per cycle | 5.75 bar |
| Destruction pressure | 20 bar |
| Pressure actuator | Diaphragm |
| Electrical durability | 100000 cycles at 10 cyc/mn |
| Mechanical durability | 1000000 cycles |
| Terminal block type | 4 terminals |

| | |
|---|---|
| Possible differential minimum at middle setting | 1.1 bar |
| Possible differential maximum at middle setting | 2.2 bar |
| Operating rate | 10 cyc/mn |
| [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 |
| Product weight | 0.34 kg |
| Repeat accuracy | < 2 % |
| Terminals description ISO n°1 | (1-2)NC<br>(3-4)NC |
| Depth | 106 mm |
| Height | 123 mm |
| Width | 72 mm |

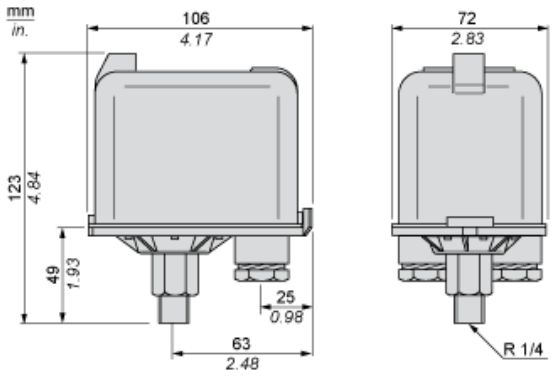
## Environment

| | |
|---|---|
| Standards | CE<br>EN/IEC 60730 |
| Ambient air temperature for operation | 0...45 °C |
| Ambient air temperature for storage | -30...80 °C |
| Protective treatment | TC |
| Class of protection against electric shock | Class I conforming to IEC 536 |
| IP degree of protection | IP65 conforming to EN/IEC 60529 |

## Offer Sustainability

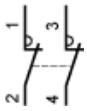
| | |
|---|---|
| RoHS (date code: YYWW) | Will not be Compliant |

## Dimensions



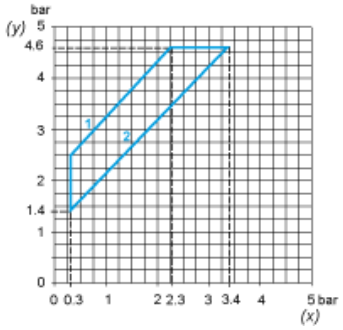
## Wiring Diagram

### Connections

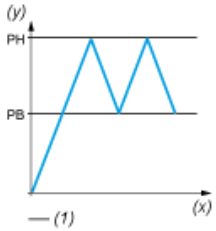


## Curves

### Operating Curves




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




(y) Pressure
(x) Time
(1) Adjustable value