



## Main

|                                   |                                                                         |
|-----------------------------------|-------------------------------------------------------------------------|
| Range of product                  | Telemecanique Pressure sensors XM                                       |
| Pressure sensor type              | Electromechanical pressure sensor                                       |
| Pressure sensor name              | FSG                                                                     |
| Pressure rating                   | 4.6 bar                                                                 |
| Fluid connection type             | G 1/4 (female) conforming to ISO 228                                    |
| Controlled fluid                  | Fresh water (0...70 °C)<br>Sea water (0...70 °C)                        |
| Cable entry                       | 2 cable entries with grommet                                            |
| 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 IEC 60730-1                              |
| Electrical connection             | Screw-clamp terminals, clamping capacity: 1 x 1...2 x 2 mm <sup>2</sup> |
| 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                                          | 0.75 KW/1 Hp at 110 V AC, 1 phase<br>1.1 KW/1.5 Hp at 110 V AC, 3 phases<br>1.5 KW/2 Hp at 230 V AC, 1 phase<br>1.5 KW/2 Hp at 400 V AC, 1 phase<br>2.2 KW/3 Hp at 230 V AC, 3 phases<br>2.2 KW/3 hp at 400 V AC, 3 phases |
| 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, operating rate <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                         |
| Maximum operating rate                          | 10 cyc/mn                       |
| [Ui] rated insulation voltage                   | 500 V conforming to IEC 60947-1 |
| [Uimp] rated impulse withstand voltage          | 6 kV conforming to IEC 60947-1  |
| Net weight                                      | 0.34 kg                         |
| Repeat accuracy                                 | 2 %                             |
| Terminals description ISO n°1                   | (3-4)NC<br>(1-2)NC              |
| Depth                                           | 102 mm                          |
| Height                                          | 96 mm                           |
| Width                                           | 72 mm                           |

## Environment

|                                       |                               |
|---------------------------------------|-------------------------------|
| Standards                             | IEC 60730<br>CE               |
| Ambient air temperature for operation | 0...45 °C                     |
| Ambient air temperature for storage   | -30...80 °C                   |
| Protective treatment                  | TC                            |
| Electrical shock protection class     | Class I conforming to IEC 536 |
| IP degree of protection               | IP20 conforming to IEC 60529  |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 10.300 cm |
| Package 1 Width              | 7.300 cm  |
| Package 1 Length             | 10.500 cm |
| Package 1 Weight             | 368.000 g |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 25        |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 9.606 kg  |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 200       |
| Package 3 Height             | 75.000 cm |
| Package 3 Width              | 60.000 cm |
| Package 3 Length             | 80.000 cm |
| Package 3 Weight             | 84.000 kg |

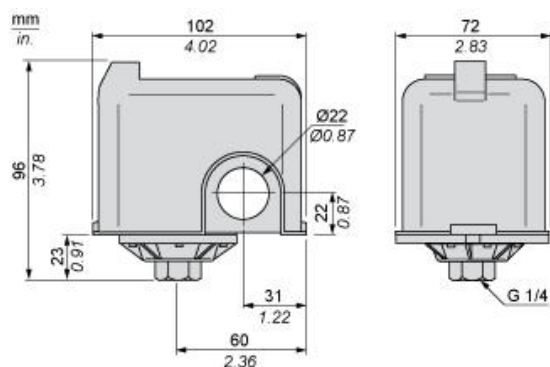
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |

## Contractual warranty

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

## Dimensions

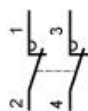


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## Wiring Diagram

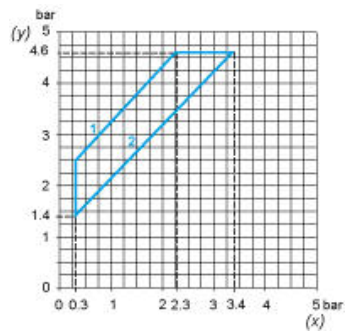
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### Connections

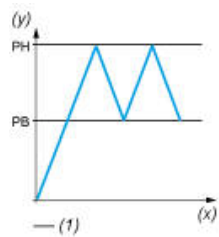


## Curves

### Operating Curves



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



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