



## SUCO - 0520 ELECTRONIC PRESSURE SWITCH

0520474411002

Normally Open, 0 – 250 bar, G 1/4 – DIN EN ISO 1179-2, NBR, M12x1

- Ceramic measuring cell
- Adjustable up to 250 bar
- High accuracy
- Adjustment by mechanical screw
- Overpressure proof up to 500 bar



### PRODUCT DESCRIPTION

Compact electronic pressure switch in galvanized steel with a ceramic measuring cell for high accuracy. Very long lifetime and simple mechanical setting of switching point via potentiometer. Hysteresis adjustable from factory 2...95 % of working range.

## TECHNICAL DATA

### GENERAL DATA

|                       |                      |
|-----------------------|----------------------|
| Adjustment range max  | 250 bar              |
| Adjustment range min  | 0 bar                |
| Electrical connection | M12x1                |
| Process connection    | G1/4-E               |
| Function              | Normally open (SPST) |
| Output                | PNP                  |
| Burst pressure        | 600 bar              |
| Pressure max          | 500 bar              |

### TEMPERATURE & MATERIALS DATA

|                           |        |
|---------------------------|--------|
| Temperature of media from | -30 °C |
| Temperature of media to   | 100 °C |
| Temperature ambient from  | -30 °C |
| Temperature ambient to    | 80 °C  |

|                                 |                        |
|---------------------------------|------------------------|
| <b>Material of body</b>         | Zinc-plated steel      |
| <b>Material of wetted parts</b> | Zinc-plated steel, NBR |
| <b>Material membrane</b>        | NBR                    |

## ADDITIONAL DATA

|                                         |                                                                                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Supply voltage dc max</b>            | 36 V DC                                                                                     |
| <b>Supply voltage dc min</b>            | 15 V DC                                                                                     |
| <b>Pressure rise</b>                    | $\leq 1$ bar/ms                                                                             |
| <b>Switching time</b>                   | < 4 ms                                                                                      |
| <b>Switching point adjustment range</b> | 2..100 % of adjustment range(full scale) nominal pressure, set from outside using set screw |
| <b>Weight</b>                           | 240 g                                                                                       |

## SAFETY & APPROVALS

|                                   |                                                                                                                  |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>IP class</b>                   | IP67                                                                                                             |
| <b>Hysteresis</b>                 | 2...95% full scale, programmable at factory (maximum tolerance $\pm 1.0\%$ of adjustment range nominal pressure) |
| <b>Shock resistance</b>           | 294m / s <sup>2</sup> ; 14 ms half sinusoidal wave; DIN EN 60068-2-27                                            |
| <b>Vibration resistance</b>       | 10g: 4-2000 Hz sine wave, DIN EN 60068-2-6                                                                       |
| <b>EMC</b>                        | EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007                                                             |
| <b>Accuracy</b>                   | $\pm 0.5$ % of adjustment range (Full scale) at room temperature                                                 |
| <b>Long term stability</b>        | $\pm 0.1$ % of adjustment range (full scale) per year                                                            |
| <b>Mechanical life expectancy</b> | 5,000,000 pulsations at rise rates to 1,000 bar/s nominal pressure                                               |
| <b>Repeatability</b>              | $\pm 0.1$ % of adjustment range (full scale) nominal pressure                                                    |