



## SUCO - 0520 ELECTRONIC PRESSURE SWITCH

0520473141001

Normally closed, 0 – 100 bar, G 1/4 – female thread,  
NBR, DIN EN 175301-803-A

- 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  | 100 bar                |
| Adjustment range min  | 0 bar                  |
| Electrical connection | DIN EN 175301-803-A    |
| Process connection    | G1/4 female            |
| Function              | Normally Closed (SPST) |
| Output                | PNP                    |
| Burst pressure        | 175 bar                |
| Pressure max          | 150 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  |

|                          |                        |
|--------------------------|------------------------|
| Material of body         | Zinc-plated steel      |
| Material of wetted parts | Zinc-plated steel, NBR |
| Material membrane        | NBR                    |

### ADDITIONAL DATA

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

### SAFETY & APPROVALS

|                            |                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------|
| IP class                   | IP65                                                                                                             |
| Hysteresis                 | 2...95% full scale, programmable at factory (maximum tolerance $\pm 1.0\%$ of adjustment range nominal pressure) |
| Shock resistance           | 294m / s <sup>2</sup> ; 14 ms half sinusoidal wave; DIN EN 60068-2-27                                            |
| Vibration resistance       | 10g: 4-2000 Hz sine wave, DIN EN 60068-2-6                                                                       |
| EMC                        | EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007                                                             |
| Accuracy                   | $\pm 0.5$ % of adjustment range (Full scale) at room temperature                                                 |
| Long term stability        | $\pm 0.1$ % of adjustment range (full scale) per year                                                            |
| Mechanical life expectancy | 5,000,000 pulsations at rise rates to 1,000 bar/s nominal pressure                                               |
| Repeatability              | $\pm 0.1$ % of adjustment range (full scale) nominal pressure                                                    |
| Pressure type              | Relativt tryck                                                                                                   |
| Type Pressure Switch       | Electronic                                                                                                       |
| Pressure range max         | 100 bar                                                                                                          |
| Pressure range min         | 0 bar                                                                                                            |
| Display                    | No                                                                                                               |



