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# SUCO - 0520 ELECTRONIC PRESSURE SWITCH

0520472143002
Normally Open, 0 – 100 bar, G 1/4 – female thread, FKM, M12x1



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

### PRODUCT DESCRIPTION

The SUCO 0520 Electronic Pressure Switch is a robust, field-adjustable device designed around a ceramic thick-film sensor housed in zinc-plated steel. It offers a pressure setpoint adjustment between 0–250 bar, with factory-set differential hysteresis ranging from 2–95%. The PNP output is configured as normally-closed by default, and a mechanical screw allows easy on-site tuning. It supports supply voltages between 18–36 V DC and uses durable Buna-N or Viton seals. Notably, it features high overpressure resilience ensuring reliability in demanding applications.
The 0520 excels in industrial hydraulic systems, mobile machinery, and pneumatic plants where accurate monitoring, reliable switching, and ruggedness are essential. The ceramic-based sensor provides long-term stability and particulate resistance, while overpressure protection safeguards against sudden spikes. Its PNP output and voltage range make integration into PLCs or control circuits straightforward. Plus, it has a cable gland included for secure cabling. Use cases include safety interlocks, pump control, leak detection, or pressure alarm systems where precision, configurability, and durability under high pressure are priorities.

# TECHNICAL DATA

## GENERAL DATA

| | |
|---|---|
| **Adjustment range max** | 100 bar |
| **Adjustment range min** | 0 bar |
| **Electrical connection** | M12x1 |
| **Process connection** | G1/4 female |
| **Function** | Normally open |
| **Output** | PNP |
| **Burst pressure** | 175 bar |
| **Pressure max** | 150 bar |

## TEMPERATURE & MATERIALS DATA

| | |
|---|---|
| **Temperature of media from** | -20 °C |

| | |
|---|---|
| **Temperature of media to** | 125 °C |
| **Temperature ambient from** | -30 °C |
| **Temperature ambient to** | 80 °C |
| **Material of body** | Zinc-plated steel |
| **Material of wetted parts** | Zinc-plated steel, FKM |
| **Material membrane** | FKM |

## ADDITIONAL DATA

| | |
|---|---|
| **Supply voltage dc max** | 36 V DC |
| **Supply voltage dc min** | 15 V DC |
| **Pressure rise** | ≤ 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** | IP67 |
| **Hysteresis** | 2...95% full scale, programmable at factory (maximum tolerance ±1.0% of adjustment range nominal pressure) |
| **Shock resistance** | 294m / s²; 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** | ±0.5 % of adjustment range (Full scale) at room temperature |
| **Long term stability** | ±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** | ±0.1 % of adjustment range (full scale) nominal pressure |