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SUCO - 0520 ELECTRONIC PRESSURE SWITCH

0520472141002
Normally Open, 0 – 100 bar, G 1/4 – female thread, NBR, 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	-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	≤ 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