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# SUCO 0531 ELECTRONIC PRESSURE SWITCH

053110142B011
PNP output (High Side), NC, 0-10 Bar, M14x1.5 – DIN EN ISO 9974-2, Cable connection




- One Switching Output
- Stainless Steel & Titanium Wetted Parts
- Silicon-On-Sapphire Technology
- Factory Set

### PRODUCT DESCRIPTION

The SUCO 0541 is a compact, high-performance electronic pressure switch engineered with dual PNP outputs, both configured as normally closed. Encased in a durable hex-22 stainless-steel and titanium-wetted housing, it utilises Silicon-on-Sapphire (SoS) sensor technology to deliver precision and long-term stability, while offering high overpressure protection up to 4× the rated pressure. Available in pressure ranges spanning 0–10 bar to 0–600 bar, the 0541 switch supports switching currents up to 500 mA and responds rapidly under demanding conditions with pressure change rates reaching 5,000 bar/s. Factory-set switching points and hysteresis (0.2–99.8 % FS) ensure reliable performance, with a sealed welded design eliminating elastomer seals and meeting IP67 and industrial EMC standards.
The 0541 excels in harsh hydraulic and pneumatic environments, such as construction machinery, mobile hydraulic systems, off-road vehicles, and industrial automation, where compact size, durable construction, and reliable switching under dynamic pressures are essential. Its dual NC PNP outputs allow for redundant or staged switching logic in safety circuits or PLC-controlled systems, ideal for overpressure alarms, machine shutdowns, or interlock functions. The fast response time, high resistance to pressure peaks, and welded sensor design make it particularly suitable for vibration-heavy or wash-down settings. Furthermore, the availability of diverse process threads and electrical connectors ensures seamless integration into OEM systems requiring rugged, precise, and dependable pressure monitoring.

# TECHNICAL DATA

## GENERAL DATA

| | |
|---|---|
| **Adjustment range max** | 10 bar |
| **Adjustment range min** | 0 bar |
| **Electrical connection** | Embedded 2m cable |
| **Process connection** | M14x1.5 |
| **Function** | Normally Closed |
| **Output** | PNP |
| **Burst pressure** | 80 bar |
| **Pressure max** | 40 bar |

## TEMPERATURE & MATERIALS DATA

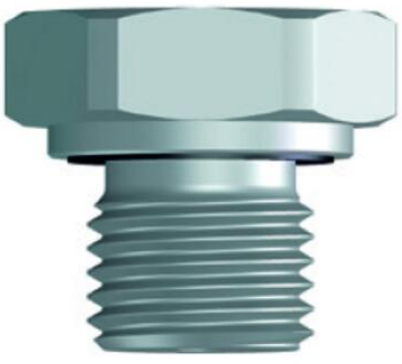
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|---|---|
| **Temperature of media from** | -40 °C |
| **Temperature of media to** | 125 °C |
| **Temperature ambient from** | -40 °C |
| **Temperature ambient to** | 100 °C |
| **Material of body** | Stainless steel 1.4305 |
| **Material of wetted parts** | Stainless steel 1.4305, Titanium |

## ADDITIONAL DATA

| | |
|---|---|
| **Supply voltage dc max** | 32 V DC |
| **Supply voltage dc min** | 9.6 V DC |
| **Pressure rise** | ≤ 5,000 bar/s |
| **Switching time** | < 2 ms |
| **Switching point adjustment range** | 2 … 100 % of the nominal pressure range Full Scale (FS), programmable at factory |
| **Weight** | 135 g |

## SAFETY & APPROVALS

| | |
|---|---|
| **IP class** | IP67 |
| **Hysteresis** | 2..99.8% of nominal pressure range (full scale), programmable at factory |
| **Shock resistance** | 500m / s²; 11 ms half sine wave; DIN EN 60068-2-27 |
| **Vibration resistance** | 20g: 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** | 10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure |
| **Repeatability** | ±0.1 % full scale |



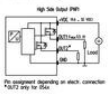


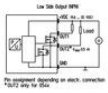






**Connection diagrams**




Technical modifications and errors excepted.

