

SUCO 0531 ELECTRONIC PRESSURE SWITCH

053125220B008
PNP output (High Side), NC, 0-250 Bar, 7/16 – 20 UNF,
Deutsch DT04-4P



- 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	250 bar
Adjustment range min	0 bar
Electrical connection	Deutsch DT04-4P
Function	Normally Closed
Output	PNP
Burst pressure	2000 bar
Pressure max	1000 bar

TEMPERATURE & MATERIALS DATA

Pin	Assignment
1	Chn
2	Out
3	Chn
4	Out

IP67
 $\Phi = 62.7 \text{ mm}$
 $\Phi = 12.10 \text{ mm}$
Order number: 001

Pin	Assignment
1	Chn
2	Out
3	Chn
4	Out

IP67
 $\Phi = 54 \text{ mm}$
 $\Phi = 12.10 \text{ mm}$
Order number: 002

Pin	Assignment
1	Chn
2	Out
3	Chn
4	Out

IP67
 $\Phi = 65 \text{ mm}$
 $\Phi = 12.10 \text{ mm}$
Order number: 004

Pin	Assignment
1	Chn
2	Out
3	Chn
4	Out

IP67
 $\Phi = 71 \text{ mm}$
 $\Phi = 12.10 \text{ mm}$
Order number: 003

Pin	Assignment
1	Chn
2	Out
3	Chn
4	Out

IP67
 $\Phi = 38 \text{ mm}$
 $\Phi = 12.10 \text{ mm}$
Order number: 008

Pin	Assignment
1	Chn
2	Out
3	Chn

IP67
 $\Phi = 38 \text{ mm}$
 $\Phi = 12.10 \text{ mm}$
Order number: 010

Cable connection

Color	Assignment
red	Chn
white	Out
black	Out

IP67
 $\Phi = 45 \text{ mm}$
 (or 25 mm band width)
 cable length = 25m
 $\Phi = 12.10 \text{ mm}$
Order number: 011

Thread code: 01

Thread code: 03

Thread code: 04

Thread code: 09

Thread code: 10

Thread code: 15

Thread code: 21

Thread code: 42



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