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# SUCO 0530 ELECTRONIC PRESSURE SWITCH

053010141B002 PNP output (High Side), NO, 0-10 Bar, G 1/4 – DIN EN ISO 1179-2, M12 - DIN EN 61076-2-101-A

- One switching output
- Stainless steel & titanium wetted parts
- Silicon-on-sapphire technology
- · Factory set



#### **PRODUCT DESCRIPTION**

The Suco high performance series of electronic pressure switches offers outstanding overpressure protection (up to 4x), long service life even under high pressure change rates whilst giving very low temperature error and excellent long-term stability. Using Silicon-on-sapphire technology for high reliability, EMC compatibility and accuracy there are five standard pressure ranges starting at 0-10 bar all the way up to 0-600 bar and a hysteresis of 0.2%-99.8%. Output option of PNP or NPN and the choice of normally open or normally closed with one switching output factory set (unadjustable by the user). The wetted parts are made of stainless steel and titanium in an all welded design ensuring excellent media compatibility with seven standard electrical connection options including Deutsch, DIN and M12 combined with eight standard thread type options.

Customer specific solutions are also available on request.

Application examples

- Automotive
- · Braking systems
- Medical
- Mobile hydraulics
- Off highway
- Off-shore
- Rail

## **TECHNICAL DATA**

#### **GENERAL DATA**

Electrical connection	M12x1
Output	PNP
Function	Normally open (SPST)
Adjustment range min	0 bar

Pressure max	40 bar
Burst pressure	80 bar
Adjustment range max	10 bar
Process connection	1/4 BSP

## **TEMPERATURE & MATERIALS DATA**

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

## ADDITIONAL DATA

Switching point adjustment range	$2 \dots 100 \ \%$ of the nominal pressure range Full Scale (FS), programmable at factory
Weight	80 g
Switching time	< 2 ms
Supply voltage dc max	32 V DC
Supply voltage dc min	9,6 V DC
Pressure rise	≤ 5,000 bar/s

### **SAFETY & APPROVALS**

IP class	IP67
Vibration resistance	20g: 42000 Hz sine wave, DIN EN 60068-2-6
Hysteresis	299.8% of nominal pressure range (full scale), programmable at factory
Repeatability	±0.1 % full scale
Accuracy	$\pm 0.5$ % of adjustment range (Full scale) at room temperature
EMC	EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007
Mechanical life expectancy	10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure
Long term stability	±0.1 % of adjustment range (full scale) per year
Shock resistance	500m / s²; 11 ms half sine wave; DIN EN 60068-2-27
Pressure range max	10 bar
Pressure range min	0 bar
Display	No















