

#### **OEM Automatic Ltd**

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# SUCO 0530 ELECTRONIC PRESSURE SWITCH

053060242B011 PNP output (High Side), NO, 0-600 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 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**

Adjustment range max	600 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	M14x1.5

Function	Normally open (SPST)
Output	PNP
Burst pressure	2000 bar
Pressure max	1650 bar

## **TEMPERATURE & MATERIALS DATA**

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	$2\dots 100\ \%$ of the nominal pressure range Full Scale (FS), programmable at factory
Weight	135 g

## **SAFETY & APPROVALS**

Hysteresis  299.8% 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: 42000 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	IP class	IP67
Vibration resistance       20g: 42000 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	Hysteresis	299.8% of nominal pressure range (full scale), programmable at factory
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Mechanical life expectancy  10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure	Accuracy	±0.5 % of adjustment range (Full scale) at room temperature
	Long term stability	±0.1 % of adjustment range (full scale) per year
Repeatability ±0.1 % full scale	Mechanical life expectancy	10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure
	Repeatability	±0.1 % full scale











