

OEM Automatic Ltd

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SUCO 0530 ELECTRONIC PRESSURE SWITCH

053060241B002 PNP output (High Side), NO, 0-600 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

Adjustment range max	600 bar
Adjustment range min	0 bar
Electrical connection	M12x1
Process connection	1/4 BSP

OutputPNPBurst pressure2000 barPressure max1650 bar	Function	Normally open (SPST)	
	Output	PNP	
Pressure max 1650 bar	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

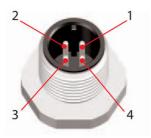
ADDITIONAL DATA

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	80 g

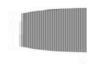
SAFETY & APPROVALS

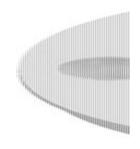
IP class	IP67		
Hysteresis	299.8% of nominal pressure range (full scale), programmable at factory		
Shock resistance	500m / s²; 11 ms half sine wave; DIN EN 60068-2-27		
Vibration resistance	20g: 42000 Hz sine wave, DIN EN 60068-2-6		
EMC	EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007		
Accuracy	±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		
Pressure type	Relativt tryck		
Pressure range max	600 bar		
Pressure range min	0 bar		

Display No



Pin 1	Uv+
Pin 2	nc
Pin 3	Gnd
Pin 4	Out





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