

OEM Automatic Ltd

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SUCO 0530 ELECTRONIC PRESSURE SWITCH

053025204B007 PNP output (High Side), NO, 0-250 Bar, NPT 1/8, AMP Superseal 1.5

- · 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	250 bar
Adjustment range min	0 bar
Electrical connection	AMP Superseal
Process connection	1/8 NPT

Function	Normally open (SPST)
Output	PNP
Burst pressure	2000 bar
Pressure max	1000 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

IP67
299.8% of nominal pressure range (full scale), programmable at factory
500m / s²; 11 ms half sine wave; DIN EN 60068-2-27
20g: 42000 Hz sine wave, DIN EN 60068-2-6
EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007
±0.5 % of adjustment range (Full scale) at room temperature
±0.1 % of adjustment range (full scale) per year
10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure
±0.1 % full scale

















