

OEM Automatic Ltd

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SUCO 0530 ELECTRONIC PRESSURE SWITCH

053010142B008 PNP output (High Side), NO, 0-10 Bar, M14x1.5 – DIN EN ISO 9974-2, Deutsch DT04-4P

- · 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	10 bar
Adjustment range min	0 bar
Electrical connection	Deutsch DT04-4P
Process connection	M14x1.5

Output PNP Burst pressure 80 bar Pressure max 40 bar	Function	Normally open (SPST)
	Output	PNP
Pressure max 40 bar	Burst pressure	80 bar
	Pressure max	40 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	2 100 % of the nominal pressure range Full Scale (FS), programmable at factory
Weight	80 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, IP6K9K
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
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	Shock resistance	500m / s²; 11 ms half sine wave; DIN EN 60068-2-27
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	Vibration resistance	20g: 42000 Hz sine wave, DIN EN 60068-2-6
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	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	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











