

OEM Automatic Ltd

Address: Whiteacres, Whetstone Leicester, LE8 6ZG 0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

SUCO 0546 ELECTRONIC PRESSURE SWITCH

054660230B004 NPN output (Low Side), NO / NC, 0-600 Bar, M10x1 zyl. DIN 3852-A, Bayonet

- High over pressure and burst pressure
- Multiple pressure options available
- · Stainless Steel design
- functions in a wide range of materials





PRODUCT DESCRIPTION

The SUCO 0546 is a compact, high-performance electronic pressure switch featuring dual NPN (low-side) outputs configured for both normally open (NO) and normally closed (NC) switching. Built with Silicon-on-Sapphire (SoS) sensor technology and housed in stainless steel with titanium wetted parts, it delivers excellent accuracy, durability, and compatibility with hydraulics, pneumatics, and even certain aggressive media. The switch offers a factory-set pressure range spanning from 0–10 bar up to 0–600 bar, with high overpressure protection up to 4× nominal and resistance to rapid pressure transients, handling ramp rates up to 5 000 bar/s. It supports up to 500 mA switching current, has multiple pressure port options (G½, NPT, UNF, M10, M14), and flexible electrical connections including M12, Deutsch, ISO bayonet, or cable lead, all with IP67 sealing.

Purpose-built for mobile hydraulics, industrial automation, and pneumatic systems, the SUCO 0546 excels in safety- and control-critical roles. Its dual output channels allow simultaneous use for primary system shutdown and secondary alarm activation. The stainless/titanium construction, high overpressure tolerance, and fast response time make it ideal for applications such as excavators, injection-moulding machines, compressor control, and hydraulic power units. The adjustable NO/NC outputs provide configuration flexibility, enabling users to integrate the switch into various logic systems. Robust sealing and rugged components ensure reliable performance in harsh environments, helping prevent system over-pressure, aiding preventive maintenance, and enhancing operator safety and process efficiency.

TECHNICAL DATA

GENERAL DATA

Adjustment range max	600 bar
Adjustment range min	0 bar
Process connection	M10x1
Function	1 x N/O & 1 x N/C
Output	2 x NPN
Burst pressure	2000 bar
Pressure max	1650 bar

TEMPERATURE & MATERIALS DATA

-40 °C	
125 °C	
-40 °C	
100 °C	
Stainless steel 1.4305	
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, IP6K9K			
Hysteresis	0.299.8 % of the 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 the nominal pressure range (FS) 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			



