



## **SUCO 0500/0501 ELECTRONIC PRESSURE SWITCH**

Factory set

0500401412002  
NO, 0 - 40 Bar, G 1/4, EPDM, M12x1

- Single switch point
- Small & compact
- Ceramic sensor
- Stainless steel housing

### **PRODUCT DESCRIPTION**

The SUCO 0500/0501 performance series electronic pressure switch offers a small compact electronic switch without compromising on quality which comes factory set (unadjustable by the user) with overpressure protection (up to 2x), has a long service life and is also attractively priced especially at high volumes. Using a ceramic sensor in thick film technology for a good operating temperature range and accuracy, there are six standard pressure ranges starting from 0.2 bar all the way up to 0..100 bar and a hysteresis of 1%-98%, available in normally open or normally closed with a PNP transistor output. The wetted parts are made of ceramic, stainless steel and either NBR, EPDM OR FKM ensuring excellent media compatibility, with six standard electrical connection options including Deutsch, DIN and M12 combined with two 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	40 bar
Adjustment range min	0 bar
Electrical connection	M12x1
Process connection	G1/4
Function	Normally open (SPST)
Output	PNP
Burst pressure	140 bar
Pressure max	100 bar

### TEMPERATURE & MATERIALS DATA

Temperature of media from	-30 °C
Temperature of media to	125 °C
Temperature ambient from	-30 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	EPDM, Stainless steel 1.4305
Material membrane	EPDM

### ADDITIONAL DATA

Supply voltage dc max	32 V DC
Supply voltage dc min	9.6 V DC
Pressure rise	≤ 1 bar/ms
Switching time	< 4 ms
Switching point adjustment range	3...100 % of adjustment range(full scale) nominal pressure, set at factory

<b>Weight</b>	80 g
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## SAFETY & APPROVALS

<b>IP class</b>	IP67
<b>Hysteresis</b>	2...98% full scale, programmable at factory (maximum tolerance $\pm 1.0\%$ of adjustment range nominal pressure)
<b>Shock resistance</b>	500m / s <sup>2</sup> ; 11 ms half sine wave; DIN EN 60068-2-27
<b>Vibration resistance</b>	20g: 4..2000 Hz sine wave, DIN EN 60068-2-6
<b>EMC</b>	EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007
<b>Accuracy</b>	$\pm 0.5\%$ of adjustment range (Full scale) at room temperature
<b>Long term stability</b>	$\pm 0.1\%$ of adjustment range (full scale) per year
<b>Mechanical life expectancy</b>	5,000,000 pulsations at rise rates to 1,000 bar/s nominal pressure
<b>Repeatability</b>	$\pm 0.1\%$ of adjustment range (full scale) nominal pressure



DIN EN 175301-800-A	M 12 - DIN EN 61076-2-101-A	ISO 15179-A1-4-1																														
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	no / nc
○ 1	(+)
○ 2	(GND)
○ 3	(OUT)

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