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

SUCO 0500/0501 ELECTRONIC PRESSURE SWITCH

Factory set

0501161412002
NC, 0 - 16 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	16 bar
Adjustment range min	0 bar
Electrical connection	M12x1
Process connection	G1/4
Function	Normally Closed (SPST)
Output	PNP
Burst pressure	60 bar
Pressure max	40 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

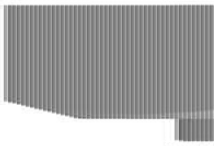
ADDITIONAL DATA

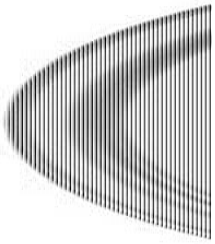
Supply voltage dc max	32 V DC
Supply voltage dc min	9.6 V DC
Pressure rise	≤ 1 bar/ms
Switching time	< 4 ms
Switching point adjustment range	3...100 % of adjustment range(full scale) nominal pressure, set at factory

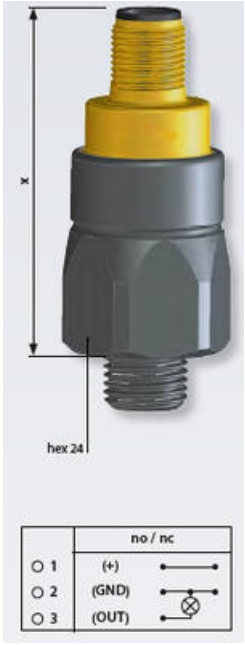
Weight	80 g

SAFETY & APPROVALS

IP class	IP67
Hysteresis	2...98% full scale, programmable at factory (maximum tolerance ±1.0% of adjustment range nominal pressure)
Shock resistance	500m / s²; 11 ms half sine wave; DIN EN 60068-2-27
Vibration resistance	20g: 4..2000 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	5,000,000 pulsations at rise rates to 1,000 bar/s nominal pressure
Repeatability	±0.1 % of adjustment range (full scale) nominal pressure







DIN EN 175301-803-A

Pin	Assignment
1	Ub+
2	Gnd
3	U_{out}
PE	PE

IP65

x ~ 60 mm without cupler outlet
x ~ 77 mm with cupler outlet

Order number: 013

M 12 – DIN EN 61076-2-101 A

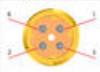
Pin	Assignment
1	Ub+
2	nc
3	Gnd
4	U_{out}

IP67

x ~ 54 mm

Order number: 002

ISO 15170-A1-4.1



Pin	Assignment
1	Ub+
2	nc
3	Gnd
4	U_{out}

IP67, IP69K

x ~ 56 mm

Order number: 004

AMP Superseal 1.5®

Pin	Assignment
1	U_{out}
2	Gnd
3	Ub+

IP67

x ~ 65 mm

Order number: 007

Deutsch DT04-3P

Pin	Assignment
A	Ub+
B	Gnd
C	U_{out}

IP67, IP69K

x ~ 61 mm

Order number: 010

Cabel connection

Pin	Assignment
red	Ub+
white	U_{out}
black	Gnd

IP67

x ~ 47 mm
(+ 25 mm bend relief)
Cable length – 2 m

Order number: 011

Thread code: 41

Thread code: 09

	no / nc
○ 1	(+)
○ 2	(GND)
○ 3	(OUT)

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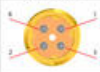

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