SUCO - 0500/0501 ELECTRONIC PRESSURE SWITCH

Factory set

0500161411002
0..16 bar, G1/4, No, PNP, NBR, M12

- 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.
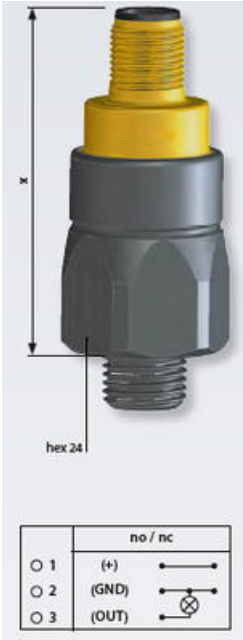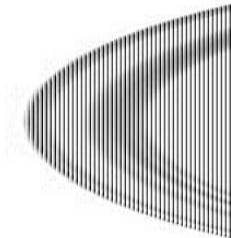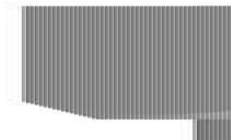
Application examples

- Automotive
- Braking systems
- Medical
- Mobile hydraulics
- Off highway
- Off-shore
- Rail

Specifications

Accuracy	±0.5 % of adjustment range (Full scale) at room temperature
Adjustment range max	16
Adjustment range min	0
Burst Pressure	60
Display	No
Electrical connection	M12x1
EMC	EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007
Function	Normally open (SPST)
Hysteresis	1...98% full scale, programmable at factory (maximum tolerance ±1.0% of adjustment range nominal pressure)
IP Class	IP67
Lifespan Mechanical	5,000,000 pulsations at rise rates to 1 bar/ms nominal pressure
Long-Term Stability	±0.1 % of adjustment range (full scale) per year
Material of body	Stainless steel 1.4305
Materials Wetted Parts	NBR, Stainless steel 1.4305
Max. pressure	40
Membrane Material	NBR
Output	PNP
Pressure Range Max	16
Pressure Range Min	0
Pressure rise	≤ 1 bar/ms
Pressure type	Relativt tryck
Process connection	1/4 BSP
Repeatability & Reproducibility	±0.1 % of adjustment range (full scale)

Shock Resistance	500m / s²; 11 ms half sine wave; DIN EN 60068-2-27
Supply Voltage DC Max	32
Supply Voltage DC Min	9.6
Switching point adjustment range	2...100 % of adjustment range(full scale), set at factory
Switching time	< 4 ms
Temperature ambient from	-30
Temperature ambient to	100
Temperature range of media from	-30
Temperature range of media to	100
Weight	80
Vibration Resistance	20g: 4..2000 Hz sine wave, DIN EN 60068-2-6

Left configuration panel

DIN EN 175301-803-A

Pin	Assignment
1	U/s+
2	Gnd
3	Usig
PE	PE

IP65

x = 60 mm without coupler socket
x = 77 mm with coupler socket

Order number: 033

M 12 – DIN EN 61076-2-101 A

Pin	Assignment
1	U/s+
2	nc
3	Gnd
4	Usig

IP67

x = 54 mm

Order number: 002

ISO 15170-A1-4.1

Pin	Assignment
1	U/s+
2	nc
3	Gnd
4	Usig

IP67 IP69K

x = 56 mm

Order number: 004

AMP Superseal 1.5*

Pin	Assignment
1	Usig
2	Gnd
3	U/s+

IP67

x = 60 mm

Order number: 007

Deutsch DT04-3P

Pin	Assignment
A	U/s+
B	Gnd
C	Usig

IP67 IP69K

x = 61 mm

Order number: 010

Cabel connection

Pin	Assignment
red	U/s+
white	Usig
black	Gnd

IP67

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

Order number: 011

Thread code: 41

Thread code: 39

Center

hex 24

no / nc	
O 1	(+)
O 2	(GND)
O 3	(OUT)

Right configuration panel