



SUCO 0510/0511 G1/4 ELECTRONIC PRESSURE SWITCH

Adjustable by user

0510200411002
NO, 0 - 2 Bar, G 1/4, NBR, M12x1

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

PRODUCT DESCRIPTION

The SUCO performance series electronic pressure switch offers a small compact electronic switch without compromising on quality which comes adjustable by the user (hysteresis not adjustable) 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 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

Electrical connection	M12x1
Output	PNP
Function	Normally open (SPST)
Adjustment range min	0 bar
Pressure max	4 bar
Burst pressure	8 bar
Adjustment range max	2 bar
Process connection	G1/4

TEMPERATURE & MATERIALS DATA

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

ADDITIONAL DATA

Switching point adjustment range	3...100 % of adjustment range(full scale), set at factory
Weight	80 g
Switching time	< 4 ms
Supply voltage dc max	32 V DC
Supply voltage dc min	9,6 V DC

Pressure rise ≤ 1 bar/ms

SAFETY & APPROVALS

IP class IP67

Vibration resistance 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6

Hysteresis 2...98% full scale, programmable at factory (maximum tolerance $\pm 1.0\%$ of adjustment range nominal pressure)

Repeatability $\pm 0.1\%$ of adjustment range (full scale)

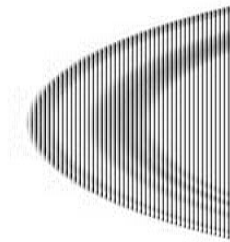
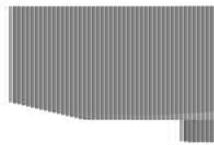
Accuracy $\pm 0.5\%$ of adjustment range (Full scale) at room temperature

EMC EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007

Mechanical life expectancy 5,000,000 pulsations at rise rates to 1 bar/ms nominal pressure

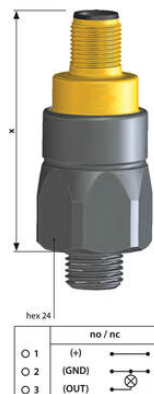
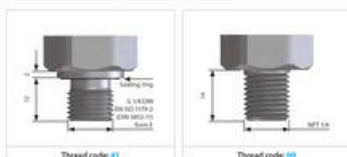
Long term stability $\pm 0.1\%$ of adjustment range (full scale) per year

Shock resistance 500m / s²; 11 ms half sine wave; DIN EN 60068-2-27



DIN EN 175301-803-A	M 12 - DIN EN 61076-2-101 A	ISO 15170-A1-4.1
Pin Assignment 1 U _{ref} 2 Gnd 3 U _{sup} 4 U _{sup}	Pin Assignment 1 U _{ref} 2 nc 3 Gnd 4 U _{sup}	Pin Assignment 1 U _{ref} 2 nc 3 Gnd 4 U _{sup}
IP67 x = 60 mm without cable x = 77 mm with cable	IP67 x = 54 mm	IP67, IP69K x = 56 mm
Order number: 013	Order number: 002	Order number: 004

AMP Superseal 1.5"	Deutsch DT94-3P
Pin Assignment 1 U _{sup} 2 Gnd 3 U _{ref}	Pin Assignment A U _{ref} B Gnd C U _{sup}
IP67 x = 60 mm	IP67, IP69K x = 60 mm
Order number: 007	Order number: 010



DIN EN 175301-803-A	M 12 - DIN EN 61076-2-101 A	ISO 15170-A1-4.1
Pin Assignment 1 U _{ref} 2 Gnd 3 U _{sup} 4 U _{sup}	Pin Assignment 1 U _{ref} 2 nc 3 Gnd 4 U _{sup}	Pin Assignment 1 U _{ref} 2 nc 3 Gnd 4 U _{sup}
IP67 x = 60 mm without cable x = 77 mm with cable	IP67 x = 54 mm	IP67, IP69K x = 56 mm
Order number: 013	Order number: 002	Order number: 004

AMP Superseal 1.5"	Deutsch DT94-3P
Pin Assignment 1 U _{sup} 2 Gnd 3 U _{ref}	Pin Assignment A U _{ref} B Gnd C U _{sup}
IP67 x = 60 mm	IP67, IP69K x = 60 mm
Order number: 007	Order number: 010



