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SUCO 0510/0511 G1/4 ELECTRONIC PRESSURE SWITCH

Adjustable by user

0510200411007 NO, 0 - 2 Bar, G 1/4, NBR, AMP Superseal 1.5



- · 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

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

TEMPERATURE & MATERIALS DATA

| -30 °C |
|-----------------------------|
| 100 °C |
| -30 °C |
| 100 °C |
| Stainless steel 1.4305 |
| NBR, Stainless steel 1.4305 |
| NBR |
| |

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 | 3100 % of adjustment range(full scale), set at factory |

Weight 80 g

SAFETY & APPROVALS

| #ysteresis 298% 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 Wibration 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 4ccuracy ±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 bar/ms nominal pressure | | |
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| 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 4ccuracy ±0.5 % of adjustment range (Full scale) at room temperature ±0.1 % of adjustment range (full scale) per year Mechanical life expectancy 5,000,000 pulsations at rise rates to 1 bar/ms nominal pressure | Hysteresis | ,, |
| EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007 ±0.5 % of adjustment range (Full scale) at room temperature ±0.1 % of adjustment range (full scale) per year Mechanical life expectancy 5,000,000 pulsations at rise rates to 1 bar/ms nominal pressure | Shock resistance | 500m / s²; 11 ms half sine wave; DIN EN 60068-2-27 |
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| Long term stability ±0.1 % of adjustment range (full scale) per year Mechanical life expectancy 5,000,000 pulsations at rise rates to 1 bar/ms nominal pressure | 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 | Accuracy | ±0.5 % of adjustment range (Full scale) at room temperature |
| | Long term stability | ±0.1 % of adjustment range (full scale) per year |
| Repeatability ±0.1 % of adjustment range (full scale) | Mechanical life expectancy | 5,000,000 pulsations at rise rates to 1 bar/ms nominal pressure |
| | Repeatability | ±0.1 % of adjustment range (full scale) |











