

#### **OEM Automatic Ltd**

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# SUCO 0530 ELECTRONIC PRESSURE SWITCH

053060209B002 PNP output (High Side), NO, 0-600 Bar, NPT 1/4, M12 -DIN EN 61076-2-101-A

- · One switching output
- · Stainless steel & titanium wetted parts
- · Silicon-on-sapphire technology
- · Factory set



#### PRODUCT DESCRIPTION

The Suco high performance series of electronic pressure switches offers outstanding overpressure protection (up to 4x), long service life even under high pressure change rates whilst giving very low temperature error and excellent long-term stability. Using Silicon-on-sapphire technology for high reliability, EMC compatibility and accuracy there are five standard pressure ranges starting at 0-10 bar all the way up to 0-600 bar and a hysteresis of 0.2%-99.8%. Output option of PNP or NPN and the choice of normally open or normally closed with one switching output factory set (unadjustable by the user). The wetted parts are made of stainless steel and titanium in an all welded design ensuring excellent media compatibility with seven standard electrical connection options including Deutsch, DIN and M12 combined with eight 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  | 600 bar |
|-----------------------|---------|
| Adjustment range min  | 0 bar   |
| Electrical connection | M12x1   |
| Process connection    | 1/4 NPT |

| Function       | Normally open (SPST) |
|----------------|----------------------|
| Output         | PNP                  |
| Burst pressure | 2000 bar             |
| Pressure max   | 1650 bar             |

## **TEMPERATURE & MATERIALS DATA**

| Temperature of media from | -40 °C                           |
|---------------------------|----------------------------------|
| Temperature of media to   | 125 °C                           |
| Temperature ambient from  | -40 °C                           |
| Temperature ambient to    | 100 °C                           |
| Material of body          | Stainless steel 1.4305           |
| Material of wetted parts  | Stainless steel 1.4305, Titanium |

# **ADDITIONAL DATA**

| Supply voltage dc max            | 32 V DC   |
|----------------------------------|---|
| Supply voltage dc min            | 9.6 V DC  |
| Pressure rise                    | ≤ 5,000 bar/s   |
| Switching time                   | < 2 ms  |
| Switching point adjustment range | $2\dots 100\ \%$ of the nominal pressure range Full Scale (FS), programmable at factory |
| Weight                           | 80 g  |

## **SAFETY & APPROVALS**

| IP67  |
|---|
| 299.8% of nominal pressure range (full scale), programmable at factory    |
| 500m / s²; 11 ms half sine wave; DIN EN 60068-2-27                        |
| 20g: 42000 Hz sine wave, DIN EN 60068-2-6                                 |
| 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                          |
| 10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure |
| ±0.1 % full scale   |
|   |











