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# SUCO 0510/0511 G1/4 ELECTRONIC PRESSURE SWITCH

Adjustable by user

0510200417004
NO, 0 - 2 Bar, G 1/4, TPE, ISO 15170-A1-4.1



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

### PRODUCT DESCRIPTION

The SUCO 0510 (NO) and 0511 (NC) models are compact, user-adjustable electronic pressure switches in a robust stainless-steel housing, featuring a ¼-inch G1/4 process connection. They incorporate a ceramic thick-film pressure sensor and PNP transistor output, operating on 9.6–32 VDC with built-in reverse-polarity and short-circuit protection. The adjustable switching range spans from 0–2 bar up to 0–250 bar, with default hysteresis between 2–98% of full scale, and an impressive accuracy of ±0.5 % FS. Overpressure resilience is rated at 2× nominal range, and burst resistance reaches up to 500 bar. With <4 ms switching response, mechanical durability of 5 million cycles, IP65–IP67 protection (depending on connector), and EMC compliance, these switches excel in reliability and longevity.

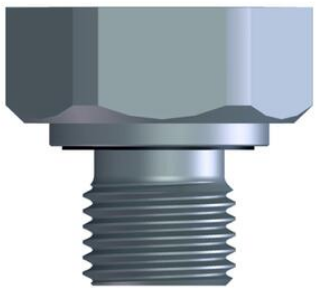
These switches are ideal for hydraulic, pneumatic, and fluid monitoring applications where space is limited, but precision and adjustability are essential—think mobile hydraulics, industrial compressors, and OEM machinery. External set-screw enables easy field adjustment, while the broad connector options (DIN EN 175301, M12, Superseal, Deutsch) simplify integration into varied control systems. Users benefit from ceramic sensor stability, low temperature drift (~0.04 % FS/°C), and repeatability (±0.1 %), making them suitable for tasks like pressure safety cut-offs, pump control, and system diagnostics.

## TECHNICAL DATA

| | |
|---|---|
| **Adjustment range min** | 0 bar |
| **Adjustment range max** | 2 bar |
| **Pressure max** | 4 bar |
| **Function** | Normally open |

| | |
|---|---|
| **IP class** | IP67, IP6K9K |
| **Material of body** | Stainless steel 1.4305 |
| **Material of wetted parts** | TPE, Stainless steel 1.4305 |
| **Material membrane** | TPE |
| **Temperature of media from** | -30 °C |
| **Temperature of media to** | 110 °C |
| **Temperature ambient from** | -30 °C |
| **Temperature ambient to** | 100 °C |
| **Process connection** | G1/4 |
| **Weight** | 80 g |

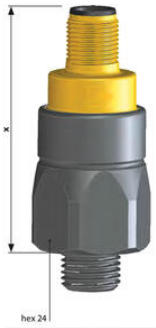
| | |
|---|---|
| **Pressure rise** | ≤ 1 bar/ms |
| **Switching point adjustment range** | 3...100 % of adjustment range(full scale), set at factory |
| **Switching time** | < 4 ms |
| **Shock resistance** | 500m / s²; 11 ms half sine wave; DIN EN 60068-2-27 |
| **Supply voltage dc max** | 32 V DC |
| **Supply voltage dc min** | 9.6 V DC |
| **Accuracy** | ±0.5 % of adjustment range (Full scale) at room temperature |
| **Repeatability** | ±0.1 % of adjustment range (full scale) |
| **Output** | PNP |
| **Vibration resistance** | 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6 |
| **Burst pressure** | 8 bar |
| **EMC** | EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007 |
| **Hysteresis** | 2...98% full scale, programmable at factory (maximum tolerance ±1.0% of adjustment range nominal pressure) |
| **Mechanical life expectancy** | 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 |








| | no / nc |
|---|---|
| 1 | (+) |
| 2 | (GND) |
| 3 | (OUT) |




| | no / nc |
|---|---|
| 1 | (+) |
| 2 | (GND) |
| 3 | (OUT) |

**DIN EN 175301-803-A**



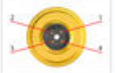
| Pin | Assignment |
|---|---|
| 1 | $U_{B+}$ |
| 2 | Gnd |
| 3 | $U_{out}$ |
| PE | PE |

IP65

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

**Order number:** 013

**M 12 – DIN EN 61076-2-101 A**



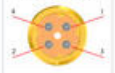
| Pin | Assignment |
|---|---|
| 1 | $U_{B+}$ |
| 2 | nc |
| 3 | Gnd |
| 4 | $U_{out}$ |

IP67

x – 54 mm

**Order number:** 002

**ISO 15170-A1-4.1**



| Pin | Assignment |
|---|---|
| 1 | $U_{B+}$ |
| 2 | nc |
| 3 | Gnd |
| 4 | $U_{out}$ |

IP67, IP69K

x – 56 mm

**Order number:** 004

**AMP Superseal 1.5°**



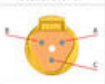
| Pin | Assignment |
|---|---|
| 1 | $U_{out}$ |
| 2 | Gnd |
| 3 | $U_{B+}$ |

IP67

x – 65 mm

**Order number:** 007

**Deutsch DT04-3P**



| Pin | Assignment |
|---|---|
| A | $U_{B+}$ |
| B | Gnd |
| C | $U_{out}$ |

IP67, IP69K

x – 60 mm

**Order number:** 010

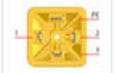



**Thread code:** 41




**Thread code:** 00

**DIN EN 175301-803-A**



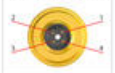
| Pin | Assignment |
|---|---|
| 1 | $U_{B+}$ |
| 2 | Gnd |
| 3 | $U_{out}$ |
| PE | PE |

IP65

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

**Order number:** 013

**M 12 – DIN EN 61076-2-101 A**



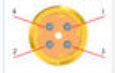
| Pin | Assignment |
|---|---|
| 1 | $U_{B+}$ |
| 2 | nc |
| 3 | Gnd |
| 4 | $U_{out}$ |

IP67

x – 54 mm

**Order number:** 002

**ISO 15170-A1-4.1**



| Pin | Assignment |
|---|---|
| 1 | $U_{B+}$ |
| 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 | $U_{B+}$ |

IP67

x – 65 mm

**Order number:** 007

**Deutsch DT04-3P**



| Pin | Assignment |
|---|---|
| A | $U_{B+}$ |
| B | Gnd |
| C | $U_{out}$ |

IP67, IP69K

x – 60 mm

**Order number:** 010




**Thread code:** 41




**Thread code:** 00