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# SUCO 0532 ELECTRONIC PRESSURE SWITCH

053210109B008
NPN output (Low Side), NO, 0-10 Bar, NPT 1/4, Deutsch DT04-4P




- One Switching Output
- Stainless Steel & Titanium Wetted Parts
- Silicon-On-Sapphire Technology
- Factory Set

### PRODUCT DESCRIPTION

The SUCO 0532 electronic pressure switch is a high-performance, factory-set device featuring a compact hex-22 stainless steel housing with titanium-wetted parts and welded design, eliminating elastomer seals. It utilises advanced Silicon-on-Sapphire (SoS) sensor technology, ensuring exceptional accuracy (±0.5 % FS) and long-term stability (±0.1 % FS/year), and delivers reliable overpressure protection up to 4× the rated range. Available with a single NPN (low-side) normally-open transistor output capable of handling up to 0.5 A, it supports pressure ranges from 0–10 bar up to 0–600 bar. The 0532 offers a wide choice of process ports and electrical connections, and includes factory-set switching point and hysteresis, along with a fast response time of under 4 ms.
The 0532 is ideal for high-integrity industrial and mobile hydraulic applications, such as in construction equipment, off-road vehicles, and pneumatic systems, where compactness, precision, and reliability are crucial. Its robust SoS sensor and welded housing offer high resilience to vibration, transient pressures, and wash-down conditions, making it suitable for severe environmental exposure. The NPN output with normally open configuration and field-programmed hysteresis allows seamless integration into PLC and relay-controlled systems for safety interlocks, pressure monitoring, and automated shutdown scenarios. The switch's fast response and low moving-part design reduce wear and improve lifespan, making the SUCO 0532 a dependable solution in OEM systems requiring compact, rugged, and high-precision pressure switching.

# TECHNICAL DATA

## GENERAL DATA

| | |
|---|---|
| **Adjustment range max** | 10 bar |
| **Adjustment range min** | 0 bar |
| **Electrical connection** | Deutsch DT04-4P |
| **Process connection** | 1/4 NPT |
| **Function** | Normally open |
| **Output** | NPN |
| **Burst pressure** | 80 bar |
| **Pressure max** | 40 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 … 100 % of the nominal pressure range Full Scale (FS), programmable at factory |
| **Weight** | 80 g |

## SAFETY & APPROVALS

| | |
|---|---|
| **IP class** | IP67, IP6K9K |
| **Hysteresis** | 2..99.8% of nominal pressure range (full scale), programmable at factory |
| **Shock resistance** | 500m / s²; 11 ms half sine wave; DIN EN 60068-2-27 |
| **Vibration resistance** | 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6 |
| **EMC** | EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007 |
| **Accuracy** | ±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** | 10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure |
| **Repeatability** | ±0.1 % full scale |







### DIN EN 175301-803-A



| Pin | Assignment |
|---|---|
| 1 | Uv+ |
| 2 | Out |
| 3 | Gnd |
| PE | ⏚ |

IP65

x – 60 / 76 mm*

d – Ø 30 mm

**Order number:** 001

### M 12 – DIN EN 61076-2-101 A



| Pin | Assignment |
|---|---|
| 1 | Uv+ |
| 2 | nc |
| 3 | Gnd |
| 4 | Out |

IP67

x – 54 mm

d – Ø 22 mm

**Order number:** 002

### ISO 15170-A1-4.1



| Pin | Assignment |
|---|---|
| 1 | Uv+ |
| 2 | nc |
| 3 | Gnd |
| 4 | Out |

IP67, IP69K

x – 65 mm mm

d – Ø 27 mm

**Order number:** 004

### AMP Superseal



| Pin | Assignment |
|---|---|
| 1 | Out |
| 2 | Gnd |
| 3 | Uv+ |

IP67

x – 73 mm

d – Ø 26 mm

**Order number:** 007

* without coupler socket x – 60 mm, with coupler socket x – 76 mm

### DEUTSCH DT04-4P



| Pin | Assignment |
|---|---|
| 1 | Gnd |
| 2 | Uv+ |
| 3 | nc |
| 4 | Out |

IP67, IP69K

x – 34 mm

d – Ø 23 mm

**Order number:** 004

### DEUTSCH DT04-3P



| Pin | Assignment |
|---|---|
| A | Uv+ |
| B | Gnd |
| C | Out |

IP67, IP69K

x – 38 mm

d – Ø 23 mm

**Order number:** 010

### Cable connection



| Cable | Assignment |
|---|---|
| red | Uv+ |
| white | Out |
| black | Gnd |

IP67

x – 84 mm
(+ 20 mm bend relief)
cable length – 2 m

d – Ø 22 mm

**Order number:** 011



**Thread code:** 41



**Thread code:** 03



**Thread code:** 04



**Thread code:** 09



**Thread code:** 20



**Thread code:** 20



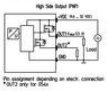
**Thread code:** 21



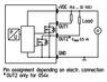
**Thread code:** 42




**Connection diagrams**




Pin assignment depending on elect. connection
* OUT2 only for 3Sax




Pin assignment depending on elect. connection
* OUT2 only for 3Sax

Technical modifications and errors excepted.


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