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# SUCO 0530 ELECTRONIC PRESSURE SWITCH

053025104B008
PNP output (High Side), NO, 0-25 Bar, NPT 1/8, Deutsch DT04-4P



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

### PRODUCT DESCRIPTION

The SUCO 0530 is a high-performance electronic pressure switch featuring a rugged hex 22 stainless steel housing and titanium-wetted parts, designed for demanding environments. It uses a precision Silicon-on-Sapphire (SOS) sensing element for exceptional accuracy, low temperature drift, and long-term stability. This model provides a single PNP output with a “normally open” function, factory-set switching point and hysteresis, and high over-pressure protection to ensure safety under unexpected pressure spikes. It supports multiple pressure ranges up to 1,650 bar, thread options including G¼, NPT, UNF, M10/M14, and electrical connector choices like Deutsch DT04, AMP Superseal, M12, bayonet, or pre-fitted cable, all rated to IP67/IP6K9K for water and dust resistance.
Built for rugged industrial and mobile-hydraulic use, the 0530 excels in situations requiring reliable pressure monitoring under harsh conditions. Typical applications include hydraulic systems in construction machinery, mobile equipment, pneumatic systems, and even high-pressure applications in test benches or process lines. The SOS sensor ensures rapid detection and long-term measurement consistency, while the all-welded stainless steel/titanium design resists corrosion and eliminates elastomer seals, ideal for harsh media and high change-rate pressures. With robust connector choices and factory-set parameters, it offers plug-and-play integration, minimal setup, and reliable performance, making it a trusted choice for sectors like heavy machinery, off-road vehicles, marine hydraulics, and industrial automation.

# TECHNICAL DATA

## GENERAL DATA

| | |
|---|---|
| **Adjustment range max** | 25 bar |
| **Adjustment range min** | 0 bar |
| **Electrical connection** | Deutsch DT04-4P |
| **Process connection** | 1/8 NPT |
| **Function** | Normally open |
| **Output** | PNP |
| **Burst pressure** | 200 bar |
| **Pressure max** | 100 bar |

## TEMPERATURE & MATERIALS DATA

| | |
|---|---|
| **Temperature of media from** | -40 °C |
| **Temperature of media to** | 125 °C |
| **Temperature ambient from** | -40 °C |

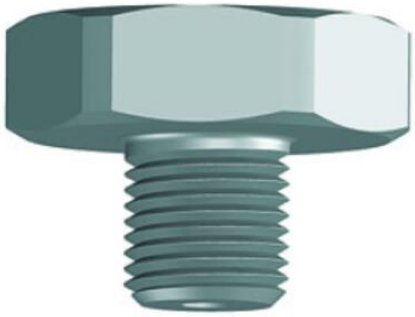
| | |
|---|---|
| **Temperature ambient to** | 100 °C |
| **Material of body** | Stainless steel 1.4305 |
| **Material of wetted parts** | Stainless steel 1.4305, Titanium |

## 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 |



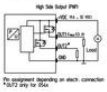






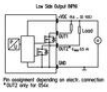

**Connection diagrams**

High Side Output (PNP)




Pin assignment depending on electr. connection
*OUT2 only for I5xx

Low Side Output (NPN)




Pin assignment depending on electr. connection
*OUT2 only for I5xx

Technical modifications and errors excepted.

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 ~ 75 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: 008**

DEUTSCH DT04-3P



| Pin | Assignment |
|---|---|
| A | Uv+ |
| B | Gnd |
| C | Out |
| IP67, IP69K | |

x ~ 78 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: 24**



**Thread code: 21**

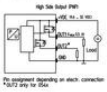


**Thread code: 42**



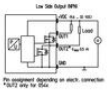

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