



SUCO - 0500/0501 ELECTRONIC PRESSURE SWITCH

Factory set

0500161412002

0..16 bar, G1/4, No, PNP, EPDM, M12

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

Product description

The SUCO 0500/0501 performance series electronic pressure switch offers a small compact electronic switch without compromising on quality which comes factory set (unadjustable by the user) 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 transistor 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.

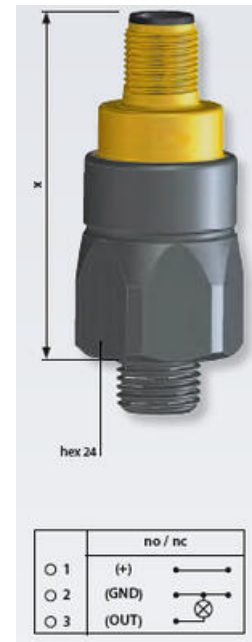
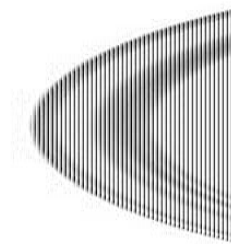
Application examples

- Automotive
- Braking systems
- Medical
- Mobile hydraulics
- Off highway
- Off-shore
- Rail

Specifications

| | |
|--|--|
| Accuracy | ±0.5 % of adjustment range (Full scale) at room temperature |
| Adjustment range max | 16 |
| Adjustment range min | 0 |
| Burst Pressure | 60 |
| Electrical connection | M12x1 |
| EMC | EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007 |
| Function | Normally open (SPST) |
| Hysteresis | 1...98% full scale, programmable at factory (maximum tolerance ±1.0% of adjustment range nominal pressure) |
| IP Class | IP67 |
| Lifespan Mechanical | 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 |
| Material of body | Stainless steel 1.4305 |
| Materials Wetted Parts | EPDM, Stainless steel 1.4305 |
| Max. pressure | 40 |
| Membrane Material | EPDM |
| Output | PNP |
| Pressure rise | ≤ 1 bar/ms |
| Process connection | G1/4 |
| Repeatability & Reproducibility | ±0.1 % of adjustment range (full scale) |
| Shock Resistance | 500m / s ² ; 11 ms half sine wave; DIN EN 60068-2-27 |
| Supply Voltage DC Max | 32 |
| Supply Voltage DC Min | 9.6 |
| Switching point adjustment range | 2...100 % of adjustment range(full scale), set at factory |

| | |
|---------------------------------|---|
| Switching time | < 4 ms |
| Temperature ambient from | -30 |
| Temperature ambient to | 100 |
| Temperature range of media from | -30 |
| Temperature range of media to | 125 |
| Weight | 80 |
| Vibration Resistance | 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6 |



DIN EN 175301-809 A

Pin Assignment

| | |
|---|------------------|
| 1 | U _{in} |
| 2 | Gnd |
| 3 | U _{out} |
| 4 | FE |

IP67

• 60 mm without cable relief
• 77 mm with cable relief

Pin Assignment

1

U_{in}

2

Gnd

3

U_{out}

4

FE

IP67

• 60 mm without cable relief
• 77 mm with cable relief

Order number: 013

M 12 - DIN EN 61076-2-101 A

Pin Assignment

| | |
|---|------------------|
| 1 | U _{in} |
| 2 | FE |
| 3 | Gnd |
| 4 | U _{out} |

IP67

• 54 mm

Pin Assignment

1

U_{in}

2

FE

3

Gnd

4

U_{out}

IP67

• 54 mm

Order number: 002

ISO 1570-A1-4-1

Pin Assignment

| | |
|---|------------------|
| 1 | U _{in} |
| 2 | FE |
| 3 | U _{out} |
| 4 | Gnd |

IP67

• 50 mm

Pin Assignment

1

U_{in}

2

FE

3

U_{out}

4

Gnd

IP67

• 50 mm

Order number: 004

AMP Supersnarl 1.5*

Pin Assignment

| | |
|---|------------------|
| 1 | U _{in} |
| 2 | Gnd |
| 3 | U _{out} |

IP67

• 60 mm

Pin Assignment

1

U_{in}

2

Gnd

3

U_{out}

IP67

• 60 mm

Order number: 007

Deutsch DT04-3P

Pin Assignment

| | |
|---|------------------|
| A | U _{in} |
| B | Gnd |
| C | U _{out} |

IP67

• 61 mm

Pin Assignment

A

U_{in}

B

Gnd

C

U_{out}

IP67

• 61 mm

Order number: 010

Cable connection

Pin Assignment

| | |
|-------|------------------|
| white | U _{in} |
| black | Gnd |
| red | U _{out} |

IP67

• 47 mm (+ 25 mm band relief)
Cable length: 2 m

Pin Assignment

white

U_{in}

black

Gnd

red

U_{out}

IP67

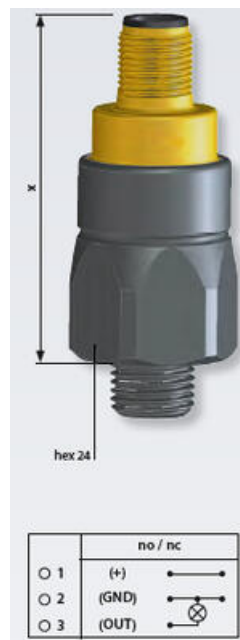
• 47 mm

(+ 25 mm band relief)
Cable length: 2 m

Order number: 011

Thread code: 41

Thread code: 49



| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------|---|-----|---|------------------|---|----|--|---|-----------------|---|------------------|---|-------|-----------------|------------------|--|---|------------------|---|----|---|------------------|---|-----|
|  <p>DIN EN 175301-809 A</p> <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>U_{in}</td></tr> <tr><td>2</td><td>Gnd</td></tr> <tr><td>3</td><td>U_{out}</td></tr> <tr><td>FE</td><td>FE</td></tr> </table> <p>IP67</p> <p>• 60 mm without cable relief • 77 mm with cable relief</p> <p>Order number: 013</p> | 1 | U _{in} | 2 | Gnd | 3 | U _{out} | FE | FE |  <p>M 12 - DIN EN 61076-2-101 A</p> <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>U_{in}</td></tr> <tr><td>2</td><td>FE</td></tr> <tr><td>3</td><td>Gnd</td></tr> <tr><td>4</td><td>U_{out}</td></tr> </table> <p>IP67</p> <p>• 54 mm</p> <p>Order number: 002</p> | 1 | U _{in} | 2 | FE | 3 | Gnd | 4 | U _{out} |  <p>ISO 1570-A1-4-1</p> <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>U_{in}</td></tr> <tr><td>2</td><td>FE</td></tr> <tr><td>3</td><td>U_{out}</td></tr> <tr><td>4</td><td>Gnd</td></tr> </table> <p>IP67</p> <p>• 50 mm</p> <p>Order number: 004</p> | 1 | U _{in} | 2 | FE | 3 | U _{out} | 4 | Gnd |
| 1 | U _{in} | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Gnd | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | U _{out} | | | | | | | | | | | | | | | | | | | | | | | | | |
| FE | FE | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | U _{in} | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FE | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Gnd | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | U _{out} | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | U _{in} | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FE | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | U _{out} | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Gnd | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>AMP Supersnarl 1.5*</p> <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>U_{in}</td></tr> <tr><td>2</td><td>Gnd</td></tr> <tr><td>3</td><td>U_{out}</td></tr> </table> <p>IP67</p> <p>• 60 mm</p> <p>Order number: 007</p> | 1 | U _{in} | 2 | Gnd | 3 | U _{out} |  <p>Deutsch DT04-3P</p> <p>Pin Assignment</p> <table border="1"> <tr><td>A</td><td>U_{in}</td></tr> <tr><td>B</td><td>Gnd</td></tr> <tr><td>C</td><td>U_{out}</td></tr> </table> <p>IP67</p> <p>• 61 mm</p> <p>Order number: 010</p> | A | U _{in} | B | Gnd | C | U _{out} |  <p>Cable connection</p> <p>Pin Assignment</p> <table border="1"> <tr><td>white</td><td>U_{in}</td></tr> <tr><td>black</td><td>Gnd</td></tr> <tr><td></td><td>U_{out}</td></tr> </table> <p>IP67</p> <p>• 47 mm (+ 25 mm band relief) Cable length: 2 m</p> <p>Order number: 011</p> | white | U _{in} | black | Gnd | | U _{out} | | | | | | |
| 1 | U _{in} | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Gnd | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | U _{out} | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | U _{in} | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | Gnd | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | U _{out} | | | | | | | | | | | | | | | | | | | | | | | | | |
| white | U _{in} | | | | | | | | | | | | | | | | | | | | | | | | | |
| black | Gnd | | | | | | | | | | | | | | | | | | | | | | | | | |
| | U _{out} | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>Thread code: 41</p> |  <p>Thread code: 49</p> | | | | | | | | | | | | | | | | | | | | | | | | | |