



## SUCO - 0500/0501 ELECTRONIC PRESSURE SWITCH

Factory set

0501161411013

0..16 bar, G1/4, Nc, PNP, NBR, DIN

- 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.

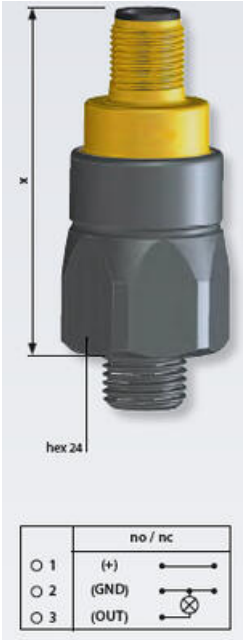
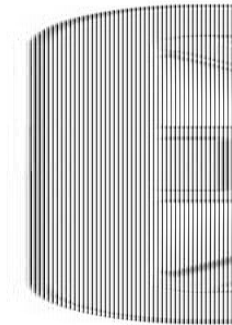
### Application examples

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

## Specifications

<b>Accuracy</b>	±0.5 % of adjustment range (Full scale) at room temperature
<b>Adjustment range max</b>	16
<b>Adjustment range min</b>	0
<b>Burst Pressure</b>	60
<b>Display</b>	No
<b>Electrical connection</b>	DIN EN 175301-803-A
<b>EMC</b>	EMC 2014/30/EU; EN 61000-6-2:2005; EN 61000-6-3:2007
<b>Function</b>	Normally Closed (SPST)
<b>Hysteresis</b>	1...98% full scale, programmable at factory (maximum tolerance ±1.0% of adjustment range nominal pressure)
<b>IP Class</b>	IP65
<b>Lifespan Mechanical</b>	5,000,000 pulsations at rise rates to 1 bar/ms nominal pressure
<b>Long-Term Stability</b>	±0.1 % of adjustment range (full scale) per year
<b>Material of body</b>	Stainless steel 1.4305
<b>Materials Wetted Parts</b>	NBR, Stainless steel 1.4305
<b>Max. pressure</b>	40
<b>Membrane Material</b>	NBR
<b>Output</b>	PNP
<b>Pressure Range Max</b>	16
<b>Pressure Range Min</b>	0
<b>Pressure rise</b>	≤ 1 bar/ms
<b>Pressure type</b>	Relativt tryck
<b>Process connection</b>	1/4 BSP
<b>Repeatability &amp; Reproducibility</b>	±0.1 % of adjustment range (full scale)

<b>Shock Resistance</b>	500m / s <sup>2</sup> ; 11 ms half sine wave; DIN EN 60068-2-27
<b>Supply Voltage DC Max</b>	32
<b>Supply Voltage DC Min</b>	9.6
<b>Switching point adjustment range</b>	2...100 % of adjustment range(full scale), set at factory
<b>Switching time</b>	< 4 ms
<b>Temperature ambient from</b>	-30
<b>Temperature ambient to</b>	100
<b>Temperature range of media from</b>	-30
<b>Temperature range of media to</b>	100
<b>Weight</b>	110
<b>Vibration Resistance</b>	20g: 4..2000 Hz sine wave, DIN EN 60068-2-6



DIN EN 175301-800-A	M 12 - DIN EN 61076-2-101-A	ISO 15179-A1-4-1																														
<table border="1"> <thead> <tr> <th>Pin</th> <th>Assignment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>U<sub>lv</sub></td> </tr> <tr> <td>2</td> <td>Gnd</td> </tr> <tr> <td>3</td> <td>U<sub>lv</sub></td> </tr> <tr> <td>PE</td> <td>PE</td> </tr> </tbody> </table> <p>IP67</p> <p>■ - 60 mm without cable outlet ■ - 77 mm with cable outlet</p> <p>Order number: 011</p>	Pin	Assignment	1	U <sub>lv</sub>	2	Gnd	3	U <sub>lv</sub>	PE	PE	<table border="1"> <thead> <tr> <th>Pin</th> <th>Assignment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>U<sub>lv</sub></td> </tr> <tr> <td>2</td> <td>nc</td> </tr> <tr> <td>3</td> <td>Gnd</td> </tr> <tr> <td>4</td> <td>U<sub>lv</sub></td> </tr> </tbody> </table> <p>IP67</p> <p>■ - 54 mm</p> <p>Order number: 002</p>	Pin	Assignment	1	U <sub>lv</sub>	2	nc	3	Gnd	4	U <sub>lv</sub>	<table border="1"> <thead> <tr> <th>Pin</th> <th>Assignment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>U<sub>lv</sub></td> </tr> <tr> <td>2</td> <td>nc</td> </tr> <tr> <td>3</td> <td>Gnd</td> </tr> <tr> <td>4</td> <td>U<sub>lv</sub></td> </tr> </tbody> </table> <p>IP67 IP68/IK</p> <p>■ - 56 mm</p> <p>Order number: 004</p>	Pin	Assignment	1	U <sub>lv</sub>	2	nc	3	Gnd	4	U <sub>lv</sub>
Pin	Assignment																															
1	U <sub>lv</sub>																															
2	Gnd																															
3	U <sub>lv</sub>																															
PE	PE																															
Pin	Assignment																															
1	U <sub>lv</sub>																															
2	nc																															
3	Gnd																															
4	U <sub>lv</sub>																															
Pin	Assignment																															
1	U <sub>lv</sub>																															
2	nc																															
3	Gnd																															
4	U <sub>lv</sub>																															
<p><b>AMP Supersnarl 1.5P</b></p> <table border="1"> <thead> <tr> <th>Pin</th> <th>Assignment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>U<sub>lv</sub></td> </tr> <tr> <td>2</td> <td>Gnd</td> </tr> <tr> <td>3</td> <td>U<sub>lv</sub></td> </tr> </tbody> </table> <p>IP67</p> <p>■ - 60 mm</p> <p>Order number: 007</p>	Pin	Assignment	1	U <sub>lv</sub>	2	Gnd	3	U <sub>lv</sub>	<p><b>Deutsch DT04-3P</b></p> <table border="1"> <thead> <tr> <th>Pin</th> <th>Assignment</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>U<sub>lv</sub></td> </tr> <tr> <td>B</td> <td>Gnd</td> </tr> <tr> <td>C</td> <td>U<sub>lv</sub></td> </tr> </tbody> </table> <p>IP67 IP68/IK</p> <p>■ - 61 mm</p> <p>Order number: 010</p>	Pin	Assignment	A	U <sub>lv</sub>	B	Gnd	C	U <sub>lv</sub>	<p><b>Cable connection</b></p> <table border="1"> <thead> <tr> <th>Pin</th> <th>Assignment</th> </tr> </thead> <tbody> <tr> <td>red</td> <td>U<sub>lv</sub></td> </tr> <tr> <td>white</td> <td>U<sub>lv</sub></td> </tr> <tr> <td>black</td> <td>Gnd</td> </tr> </tbody> </table> <p>IP67</p> <p>■ - 47 mm (+ 25 mm band relief) Cable length: 2 m</p> <p>Order number: 011</p>	Pin	Assignment	red	U <sub>lv</sub>	white	U <sub>lv</sub>	black	Gnd						
Pin	Assignment																															
1	U <sub>lv</sub>																															
2	Gnd																															
3	U <sub>lv</sub>																															
Pin	Assignment																															
A	U <sub>lv</sub>																															
B	Gnd																															
C	U <sub>lv</sub>																															
Pin	Assignment																															
red	U <sub>lv</sub>																															
white	U <sub>lv</sub>																															
black	Gnd																															
<p>Thread code: 41</p>	<p>Thread code: 00</p>																															



DIN EN 175301-800-A	M 12 - DIN EN 61076-2-101-A	ISO 15179-A1-4-1																														
																																
<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>U<sub>lv</sub></td></tr><tr><td>2</td><td>Gnd</td></tr><tr><td>3</td><td>U<sub>lv</sub></td></tr><tr><td>PE</td><td>PE</td></tr></table> <p>IP67</p> <p>■ - 60 mm without cable outlet ■ - 77 mm with cable outlet</p> <p>Order number: 011</p>	Pin	Assignment	1	U <sub>lv</sub>	2	Gnd	3	U <sub>lv</sub>	PE	PE	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>U<sub>lv</sub></td></tr><tr><td>2</td><td>nc</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>U<sub>lv</sub></td></tr></table> <p>IP67</p> <p>■ - 54 mm</p> <p>Order number: 002</p>	Pin	Assignment	1	U <sub>lv</sub>	2	nc	3	Gnd	4	U <sub>lv</sub>	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>U<sub>lv</sub></td></tr><tr><td>2</td><td>nc</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>U<sub>lv</sub></td></tr></table> <p>IP67 IP68/IK</p> <p>■ - 56 mm</p> <p>Order number: 004</p>	Pin	Assignment	1	U <sub>lv</sub>	2	nc	3	Gnd	4	U <sub>lv</sub>
Pin	Assignment																															
1	U <sub>lv</sub>																															
2	Gnd																															
3	U <sub>lv</sub>																															
PE	PE																															
Pin	Assignment																															
1	U <sub>lv</sub>																															
2	nc																															
3	Gnd																															
4	U <sub>lv</sub>																															
Pin	Assignment																															
1	U <sub>lv</sub>																															
2	nc																															
3	Gnd																															
4	U <sub>lv</sub>																															
																																
<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>U<sub>lv</sub></td></tr><tr><td>2</td><td>Gnd</td></tr><tr><td>3</td><td>U<sub>lv</sub></td></tr></table> <p>IP67</p> <p>■ - 60 mm</p> <p>Order number: 007</p>	Pin	Assignment	1	U <sub>lv</sub>	2	Gnd	3	U <sub>lv</sub>	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>A</td><td>U<sub>lv</sub></td></tr><tr><td>B</td><td>Gnd</td></tr><tr><td>C</td><td>U<sub>lv</sub></td></tr></table> <p>IP67 IP68/IK</p> <p>■ - 61 mm</p> <p>Order number: 010</p>	Pin	Assignment	A	U <sub>lv</sub>	B	Gnd	C	U <sub>lv</sub>	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>red</td><td>U<sub>lv</sub></td></tr><tr><td>white</td><td>U<sub>lv</sub></td></tr><tr><td>black</td><td>Gnd</td></tr></table> <p>IP67</p> <p>■ - 47 mm (+ 25 mm band relief) Cable length: 2 m</p> <p>Order number: 011</p>	Pin	Assignment	red	U <sub>lv</sub>	white	U <sub>lv</sub>	black	Gnd						
Pin	Assignment																															
1	U <sub>lv</sub>																															
2	Gnd																															
3	U <sub>lv</sub>																															
Pin	Assignment																															
A	U <sub>lv</sub>																															
B	Gnd																															
C	U <sub>lv</sub>																															
Pin	Assignment																															
red	U <sub>lv</sub>																															
white	U <sub>lv</sub>																															
black	Gnd																															
																																
Thread code: 41	Thread code: 00																															