



SUCO - 0601/0602 PRESSURE SENSOR

Performance series

0601161413002
0-10V, 0..16 bar, G1/4-E, FKM, M12



- Measuring range up to 100 bar
- Ceramic sensor
- Small and compact
- Stainless steel housing



PRODUCT DESCRIPTION

The SUCO 0601/0602 performance series pressure sensor is a small, compact and cost effective pressure monitoring solution. Offering six standard pressure ranges with options of four different electrical connectors a thread of G1/4 and 0-10V or 4-20mA outputs. The 06 series uses a ceramic sensor in thick film technology which is housed in a stainless steel body.

Common applications include mobile hydraulics and power packs.

TECHNICAL DATA

| | |
|----------------------------|--------------------------------------|
| Accuracy | ±1% FS |
| Burst pressure | 60 bar |
| Connection | G1/4-E |
| Electrical connection | M12x1 4-pole |
| IP class | IP67 |
| Long term stability | ±0.3% FS p.a. |
| Material of body | Stainless steel 1.4305 |
| Material of wetted parts | Stainless steel 1.4305, Ceramic, FKM |
| Mechanical life expectancy | 5 million cycles |
| Overpressure protection | 40 bar |
| Pressure range max | 16 bar |
| Pressure range min | 0 bar |

| | |
|---------------------------|---|
| Pressure reference | Gauge |
| Pressure rise | 1 bar/ms |
| Repeatability | ±0.1% FS |
| Response time | 2 ms |
| Shock resistance | "500m / s ² ; 11 ms half sine wave; DIN EN 60068-2-27" |
| Signal type | 0-10 V |
| Supply voltage dc max | 32 V DC |
| Supply voltage dc min | 11 V DC |
| Temperature ambient from | -30 °C |
| Temperature ambient to | 100 °C |
| Temperature error | ±0.04% FS/°C |
| Temperature of media from | -20 °C |
| Temperature of media to | 125 °C |
| Weight | 80 g |
| Vibration resistance | 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6 |



| DIN EN 175301-803-A  <table><tr><th>Pin</th><th>0601</th><th>0602</th></tr><tr><td>1</td><td>U_{ve}</td><td>U_{ve}</td></tr><tr><td>2</td><td>Gnd</td><td>I_{ue}</td></tr><tr><td>3</td><td>U_{ue}</td><td>nc*</td></tr></table> <p>IP65 x ~ 60 mm without coupler socket x ~ 77 mm with coupler socket Order number: 013</p> | Pin | 0601 | 0602 | 1 | U _{ve} | U _{ve} | 2 | Gnd | I _{ue} | 3 | U _{ue} | nc* | M 12 – DIN EN 61076-2-101 A  <table><tr><th>Pin</th><th>0601</th><th>0602</th></tr><tr><td>1</td><td>U_{ve}</td><td>U_{ve}</td></tr><tr><td>2</td><td>U_{ue}</td><td>nc*</td></tr><tr><td>3</td><td>Gnd</td><td>I_{ue}</td></tr><tr><td>4</td><td>nc*</td><td>nc*</td></tr></table> <p>IP67 x ~ 54 mm Order number: 002</p> | Pin | 0601 | 0602 | 1 | U _{ve} | U _{ve} | 2 | U _{ue} | nc* | 3 | Gnd | I _{ue} | 4 | nc* | nc* | ISO 15170-A1-4.1  <table><tr><th>Pin</th><th>0601</th><th>0602</th></tr><tr><td>1</td><td>U_{ve}</td><td>U_{ve}</td></tr><tr><td>2</td><td>Gnd</td><td>nc*</td></tr><tr><td>3</td><td>U_{ue}</td><td>I_{ue}</td></tr><tr><td>4</td><td>nc*</td><td>nc*</td></tr></table> <p>IP67, IP69K x ~ 56 mm Order number: 004</p> | Pin | 0601 | 0602 | 1 | U _{ve} | U _{ve} | 2 | Gnd | nc* | 3 | U _{ue} | I _{ue} | 4 | nc* | nc* |
|--|-----------------|-----------------|------|---|-----------------|-----------------|---|-----|-----------------|---|-----------------|-----------------|--|-----|------|------|---|-----------------|-----------------|---|-----------------|-----|---|-----------------|-----------------|---|-----|-----|--|-----|------|------|---|-----------------|-----------------|---|-----|-----|---|-----------------|-----------------|---|-----|-----|
| Pin | 0601 | 0602 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | U _{ve} | U _{ve} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Gnd | I _{ue} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | U _{ue} | nc* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin | 0601 | 0602 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | U _{ve} | U _{ve} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | U _{ue} | nc* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Gnd | I _{ue} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | nc* | nc* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin | 0601 | 0602 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | U _{ve} | U _{ve} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Gnd | nc* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | U _{ue} | I _{ue} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | nc* | nc* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AMP Superseal 1.5*  <table><tr><th>Pin</th><th>0601</th><th>0602</th></tr><tr><td>1</td><td>U_{ue}</td><td>nc*</td></tr><tr><td>2</td><td>Gnd</td><td>I_{ue}</td></tr><tr><td>3</td><td>U_{ve}</td><td>U_{ve}</td></tr></table> <p>IP67 x ~ 61 mm Order number: 007</p> | Pin | 0601 | 0602 | 1 | U _{ue} | nc* | 2 | Gnd | I _{ue} | 3 | U _{ve} | U _{ve} | Deutsch DT04-3P  <table><tr><th>Pin</th><th>0601</th><th>0602</th></tr><tr><td>A</td><td>U_{ve}</td><td>U_{ve}</td></tr><tr><td>B</td><td>Gnd</td><td>nc*</td></tr><tr><td>C</td><td>U_{ue}</td><td>I_{ue}</td></tr></table> <p>IP67, IP69K x ~ 61 mm Order number: 010</p> | Pin | 0601 | 0602 | A | U _{ve} | U _{ve} | B | Gnd | nc* | C | U _{ue} | I _{ue} | | | | | | | | | | | | | | | | | | | |
| Pin | 0601 | 0602 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | U _{ue} | nc* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Gnd | I _{ue} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | U _{ve} | U _{ve} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin | 0601 | 0602 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | U _{ve} | U _{ve} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | Gnd | nc* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | U _{ue} | I _{ue} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

