

## SUCO 0510/0511 NPT1/4 ELECTRONIC PRESSURE SWITCH

Adjustable by user

0511161092011

NC, 0 - 16 Bar, NPT 1/4, EPDM, Cable connection



- Single Switch Point
- Small & Compact
- Ceramic Sensor
- Stainless Steel Housing

### PRODUCT DESCRIPTION

The SUCO 0510/0511 series combines a compact stainless-steel (AISI 303) hex-24 housing with a high-performance ceramic thick-film sensor, offering exceptionally reliable, switchable pressure monitoring. Users can adjust the switching point and hysteresis on-site, covering ranges from just 0–2 bar up to 0–600 bar, with dual output configurations (NO or NC, PNP 500 mA capability), and visual LED status indication for easy diagnostics. They're designed to withstand overpressure of up to 2× rated pressure and meet IP67 protection when paired with sealed connectors. Installation versatility is further enhanced by an array of electrical (AMP Superseal, Deutsch, DIN, M12, cable) and process (1/4-inch NPT, BSP, UNF, metric) connection options.

This series is ideal for OEM and industrial systems that require compact, field-adjustable pressure monitoring. It excels in hydraulic and pneumatic applications—such as construction equipment, material handling, and mobile machinery—where ruggedness and precision under harsh conditions are essential. The ceramic sensor resists corrosion and is unaffected by contact wear, making it suitable for systems with vibration, fluid contamination, or wash-down environments. With its PNP switching logic and adjustable hysteresis, it integrates smoothly into PLCs or relay-based controls for safety interlocks, pressure alarms, or automated shutdowns. Its robust overpressure tolerance and durable housing also make it a solid choice for mobile hydraulics and fluid processing where long-term reliability is critical.

## TECHNICAL DATA

### GENERAL DATA

|                       |                   |
|-----------------------|-------------------|
| Adjustment range max  | 16 bar            |
| Adjustment range min  | 0 bar             |
| Electrical connection | Embedded 2m cable |
| Process connection    | 1/4 NPT           |
| Function              | Normally Closed   |
| Output                | PNP               |
| Burst pressure        | 60 bar            |
| Pressure max          | 40 bar            |

### TEMPERATURE & MATERIALS DATA

|                           |        |
|---------------------------|--------|
| Temperature of media from | -30 °C |
| Temperature of media to   | 125 °C |
| Temperature ambient from  | -30 °C |

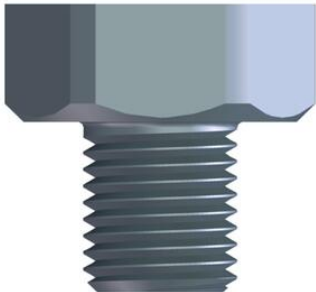
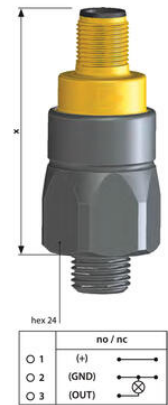
|                          |                              |
|--------------------------|------------------------------|
| Temperature ambient to   | 100 °C                       |
| Material of body         | Stainless steel 1.4305       |
| Material of wetted parts | EPDM, Stainless steel 1.4305 |
|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

### ADDITIONAL DATA

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| Supply voltage dc max            | 32 V DC                                                   |
| Supply voltage dc min            | 9.6 V DC                                                  |
| Pressure rise                    | ≤ 1 bar/ms                                                |
| Switching time                   | < 4 ms                                                    |
| Switching point adjustment range | 3...100 % of adjustment range(full scale), set at factory |
| Weight                           | 80 g                                                      |

### SAFETY & APPROVALS

|                            |                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------|
| IP class                   | IP67                                                                                                       |
| Hysteresis                 | 2...98% full scale, programmable at factory (maximum tolerance ±1.0% of adjustment range nominal pressure) |
| 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 | 5,000,000 pulsations at rise rates to 1 bar/ms nominal pressure                                            |
| Repeatability              | ±0.1 % of adjustment range (full scale)                                                                    |



| DIN EN 175301-803-A                                                                                                                                                                | M 12 - DIN EN 61076-2-101-A                                                       | ISO 15170-A1-4-1                                                                  |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
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|                                                                                                   |  |  |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
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| Pin                                                                                                                                                                                | Assignment                                                                        |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 1                                                                                                                                                                                  | Vcc                                                                               |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 2                                                                                                                                                                                  | Gnd                                                                               |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 3                                                                                                                                                                                  | Vcc                                                                               |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 4                                                                                                                                                                                  | PE                                                                                |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| Pin                                                                                                                                                                                | Assignment                                                                        |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 1                                                                                                                                                                                  | Vcc                                                                               |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 2                                                                                                                                                                                  | Gnd                                                                               |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 3                                                                                                                                                                                  | Vcc                                                                               |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 4                                                                                                                                                                                  | PE                                                                                |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| Pin                                                                                                                                                                                | Assignment                                                                        |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 1                                                                                                                                                                                  | Vcc                                                                               |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 2                                                                                                                                                                                  | Gnd                                                                               |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 3                                                                                                                                                                                  | Vcc                                                                               |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 4                                                                                                                                                                                  | PE                                                                                |                                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| IP67                                                                                                                                                                               | IP67                                                                              | IP67, IP68/9K                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| • 65 mm without cable exit<br>• 77 mm with cable exit                                                                                                                              | • 65 mm<br>• 77 mm with cable exit                                                | • 65 mm<br>• 77 mm with cable exit                                                |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| Order number: 001                                                                                                                                                                  | Order number: 002                                                                 | Order number: 004                                                                 |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |

| AMP Superseal 1.5"                                                                                                                                                                                      | Deutsch DT98-3P                                                                          |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
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| 1                                                                                                                                                                                                       | Vcc                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 2                                                                                                                                                                                                       | Gnd                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 3                                                                                                                                                                                                       | Vcc                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| Pin                                                                                                                                                                                                     | Assignment                                                                               |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 1                                                                                                                                                                                                       | Vcc                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 2                                                                                                                                                                                                       | Gnd                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 3                                                                                                                                                                                                       | Vcc                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| <p>IP67</p> <p>• 65 mm<br/>• 77 mm with cable exit</p> <p>Order number: 003</p>                                                                                                                         | <p>IP67, IP68/9K</p> <p>• 65 mm<br/>• 77 mm with cable exit</p> <p>Order number: 018</p> |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |

| Thread code: 41                                                                   | Thread code: 09                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |



| <b>DIN EN 175301-803-A</b>                                                                                                                                                         | <b>M 12 - DIN EN 61076-2-101-A</b>                                                  | <b>ISO 15170-A1-4-1</b>                                                             |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
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|                                                                                                 |  |  |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
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| 1                                                                                                                                                                                  | Vcc                                                                                 |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 2                                                                                                                                                                                  | Gnd                                                                                 |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 3                                                                                                                                                                                  | Vcc                                                                                 |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 4                                                                                                                                                                                  | PE                                                                                  |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| Pin                                                                                                                                                                                | Assignment                                                                          |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 1                                                                                                                                                                                  | Vcc                                                                                 |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 2                                                                                                                                                                                  | Gnd                                                                                 |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 3                                                                                                                                                                                  | Vcc                                                                                 |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 4                                                                                                                                                                                  | PE                                                                                  |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| Pin                                                                                                                                                                                | Assignment                                                                          |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 1                                                                                                                                                                                  | Vcc                                                                                 |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 2                                                                                                                                                                                  | Gnd                                                                                 |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 3                                                                                                                                                                                  | Vcc                                                                                 |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| 4                                                                                                                                                                                  | PE                                                                                  |                                                                                     |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| <p>IP67</p> <p>• 60 mm without cable exit<br/>• 77 mm with cable exit</p>                                                                                                          | <p>IP67</p> <p>• 64 mm<br/>• 77 mm with cable exit</p>                              | <p>IP67, IP68</p> <p>• 60 mm<br/>• 77 mm with cable exit</p>                        |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |
| Order number: 001                                                                                                                                                                  | Order number: 002                                                                   | Order number: 004                                                                   |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |                                                                                                                                                                                    |     |            |   |     |   |     |   |     |   |    |

| AMP Superseal 1.5"                                                                                                                                                                                      | Deutsch DT98-3P                                                                          |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
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|                                                                                                                      |       |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
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| Pin                                                                                                                                                                                                     | Assignment                                                                               |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 1                                                                                                                                                                                                       | Vcc                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 2                                                                                                                                                                                                       | Gnd                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 3                                                                                                                                                                                                       | Vcc                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| Pin                                                                                                                                                                                                     | Assignment                                                                               |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 1                                                                                                                                                                                                       | Vcc                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 2                                                                                                                                                                                                       | Gnd                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| 3                                                                                                                                                                                                       | Vcc                                                                                      |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |
| <p>IP67</p> <p>• 65 mm<br/>• 77 mm with cable exit</p> <p>Order number: 003</p>                                                                                                                         | <p>IP67, IP68/9K</p> <p>• 65 mm<br/>• 77 mm with cable exit</p> <p>Order number: 018</p> |            |   |     |   |     |   |     |                                                                                                                                                                                                         |     |            |   |     |   |     |   |     |

| Thread code: 41                                                                     | Thread code: 09                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |