



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

Adjustable by user

0510101097002  
NO, 0 - 10 Bar, NPT 1/4, TPE, M12x1

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

### PRODUCT DESCRIPTION

### TECHNICAL DATA

#### GENERAL DATA

|                       |                      |
|-----------------------|----------------------|
| Adjustment range max  | 10 bar               |
| Adjustment range min  | 0 bar                |
| Electrical connection | M12x1                |
| Process connection    | 1/4 NPT              |
| Function              | Normally open (SPST) |
| Output                | PNP                  |
| Burst pressure        | 35 bar               |
| Pressure max          | 20 bar               |

#### TEMPERATURE & MATERIALS DATA

|                           |                        |
|---------------------------|------------------------|
| Temperature of media from | -30 °C                 |
| Temperature of media to   | 110 °C                 |
| Temperature ambient from  | -30 °C                 |
| Temperature ambient to    | 100 °C                 |
| Material of body          | Stainless steel 1.4305 |

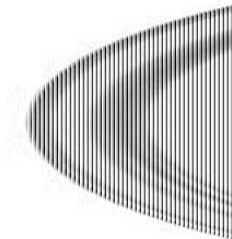
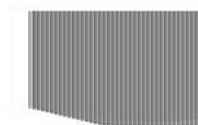
|                          |                             |
|--------------------------|-----------------------------|
| Material of wetted parts | TPE, Stainless steel 1.4305 |
| Material membrane        | TPE                         |

### 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)                                                                    |



| Pin | Assignment       |
|-----|------------------|
| 1   | U <sub>ext</sub> |
| 2   | Grnd             |
| 3   | U <sub>int</sub> |
| PE  | PE               |

IP67

Ø = 60 mm without cable outlet  
Ø = 77 mm with cable outlet

Order number: 013

| Pin | Assignment       |
|-----|------------------|
| 1   | U <sub>ext</sub> |
| 2   | Grnd             |
| 3   | U <sub>int</sub> |
| 4   | U <sub>ext</sub> |

IP67

Ø = 54 mm

Order number: 002

| Pin | Assignment       |
|-----|------------------|
| 1   | U <sub>ext</sub> |
| 2   | Grnd             |
| 3   | U <sub>int</sub> |
| 4   | U <sub>ext</sub> |

IP67, IP68/9K

Ø = 56 mm

Order number: 004

| Pin | Assignment       |
|-----|------------------|
| 1   | U <sub>int</sub> |
| 2   | Grnd             |
| 3   | U <sub>ext</sub> |

IP67

Ø = 60 mm

Order number: 007

| Pin | Assignment       |
|-----|------------------|
| A   | U <sub>ext</sub> |
| B   | Grnd             |
| C   | U <sub>int</sub> |

IP67, IP68/9K

Ø = 60 mm

Order number: 010

Thread code: 41

Thread code: 09



| Pin | Assignment       |
|-----|------------------|
| 1   | U <sub>ext</sub> |
| 2   | Grnd             |
| 3   | U <sub>int</sub> |
| PE  | PE               |

IP67

Ø = 60 mm without cable outlet  
Ø = 77 mm with cable outlet

Order number: 013

| Pin | Assignment       |
|-----|------------------|
| 1   | U <sub>ext</sub> |
| 2   | Grnd             |
| 3   | U <sub>int</sub> |
| 4   | U <sub>ext</sub> |

IP67

Ø = 54 mm

Order number: 002

| Pin | Assignment       |
|-----|------------------|
| 1   | U <sub>ext</sub> |
| 2   | Grnd             |
| 3   | U <sub>int</sub> |
| 4   | U <sub>ext</sub> |

IP67, IP68/9K

Ø = 56 mm

Order number: 004

| Pin | Assignment       |
|-----|------------------|
| 1   | U <sub>int</sub> |
| 2   | Grnd             |
| 3   | U <sub>ext</sub> |

IP67

Ø = 60 mm

Order number: 007

| Pin | Assignment       |
|-----|------------------|
| A   | U <sub>ext</sub> |
| B   | Grnd             |
| C   | U <sub>int</sub> |

IP67, IP68/9K

Ø = 60 mm

Order number: 010

Thread code: 41

Thread code: 09