



## SUCO 0542 ELECTRONIC PRESSURE SWITCH

054225220B011  
PNP output (High Side), NO / NC, 0-250 Bar, 7/16 – 20  
UNF, Cable connection



### PRODUCT DESCRIPTION

### TECHNICAL DATA

#### GENERAL DATA

|                       |                   |
|-----------------------|-------------------|
| Adjustment range max  | 250 bar           |
| Adjustment range min  | 0 bar             |
| Electrical connection | Embedded 2m cable |
| Function              | 1 x N/O & 1 x N/C |
| Output                | 2 x PNP           |
| Burst pressure        | 2000 bar          |
| Pressure max          | 1000 bar          |

#### TEMPERATURE & MATERIALS DATA

|                           |                                  |
|---------------------------|----------------------------------|
| Temperature of media from | -40 °C                           |
| Temperature of media to   | 125 °C                           |
| Temperature ambient from  | -40 °C                           |
| Temperature ambient to    | 100 °C                           |
| Material of body          | Stainless steel 1.4305           |
| Material of wetted parts  | Stainless steel 1.4305, Titanium |

### ADDITIONAL DATA

|                                         |                                                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------|
| <b>Supply voltage dc max</b>            | 32 V DC                                                                             |
| <b>Supply voltage dc min</b>            | 9.6 V DC                                                                            |
| <b>Pressure rise</b>                    | ≤ 5,000 bar/s                                                                       |
| <b>Switching time</b>                   | < 2 ms                                                                              |
| <b>Switching point adjustment range</b> | 2 ... 100 % of the nominal pressure range (Full Scale, FS), programmable at factory |
| <b>Weight</b>                           | 135 g                                                                               |

## SAFETY & APPROVALS

|                                   |                                                                                  |
|-----------------------------------|----------------------------------------------------------------------------------|
| <b>IP class</b>                   | IP67                                                                             |
| <b>Hysteresis</b>                 | 0.2...99.8 % of the nominal pressure range (Full Scale), programmable at factory |
| <b>Shock resistance</b>           | 500m / s <sup>2</sup> ; 11 ms half sine wave; DIN EN 60068-2-27                  |
| <b>Vibration resistance</b>       | 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6                                      |
| <b>EMC</b>                        | EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007                             |
| <b>Accuracy</b>                   | ±0.5 % of the nominal pressure range (FS) at room temperature                    |
| <b>Long term stability</b>        | ±0.1 % of adjustment range (full scale) per year                                 |
| <b>Mechanical life expectancy</b> | 10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure        |
| <b>Repeatability</b>              | ±0.1 % full scale                                                                |

