



## SUCO 0545 ELECTRONIC PRESSURE SWITCH

054510142B002  
NPN output (Low Side), NC/ NC, 0-10 Bar, M14x1.5 –  
DIN EN ISO 9974-2, M12 - DIN



### PRODUCT DESCRIPTION

### TECHNICAL DATA

#### GENERAL DATA

|                       |         |
|-----------------------|---------|
| Adjustment range max  | 10 bar  |
| Adjustment range min  | 0 bar   |
| Electrical connection | M12x1   |
| Process connection    | M14x1.5 |
| Function              | 2 x N/C |
| Output                | 2 x NPN |
| Burst pressure        | 80 bar  |
| Pressure max          | 40 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

|                                  |                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------|
| Supply voltage dc max            | 32 V DC                                                                             |
| Supply voltage dc min            | 9.6 V DC                                                                            |
| Pressure rise                    | ≤ 5,000 bar/s                                                                       |
| Switching time                   | < 2 ms                                                                              |
| Switching point adjustment range | 2 ... 100 % of the nominal pressure range (Full Scale, FS), programmable at factory |
| Weight                           | 80 g                                                                                |

SAFETY & APPROVALS

|                            |                                                                                  |
|----------------------------|----------------------------------------------------------------------------------|
| IP class                   | IP67                                                                             |
| Hysteresis                 | 0.2...99.8 % of the nominal pressure range (Full Scale), programmable at factory |
| 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 the nominal pressure range (FS) at room temperature                    |
| Long term stability        | ±0.1 % of adjustment range (full scale) per year                                 |
| Mechanical life expectancy | 10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure        |
| Repeatability              | ±0.1 % full scale                                                                |

