



## SUCO 0532 ELECTRONIC PRESSURE SWITCH

053210241B013  
NPN output (Low Side), NO, 0-100 Bar, G 1/4 – DIN EN ISO 1179-2, DIN EN 175301-803-A

- One Switching Output
- Stainless Steel & Titanium Wetted Parts
- Silicon-On-Sapphire Technology
- Factory Set



### PRODUCT DESCRIPTION

### TECHNICAL DATA

#### GENERAL DATA

|                       |                      |
|-----------------------|----------------------|
| Adjustment range max  | 100 bar              |
| Adjustment range min  | 0 bar                |
| Electrical connection | DIN EN 175301-803-A  |
| Process connection    | G1/4                 |
| Function              | Normally open (SPST) |
| Output                | NPN                  |
| Burst pressure        | 800 bar              |
| Pressure max          | 400 bar              |

#### TEMPERATURE & MATERIALS DATA

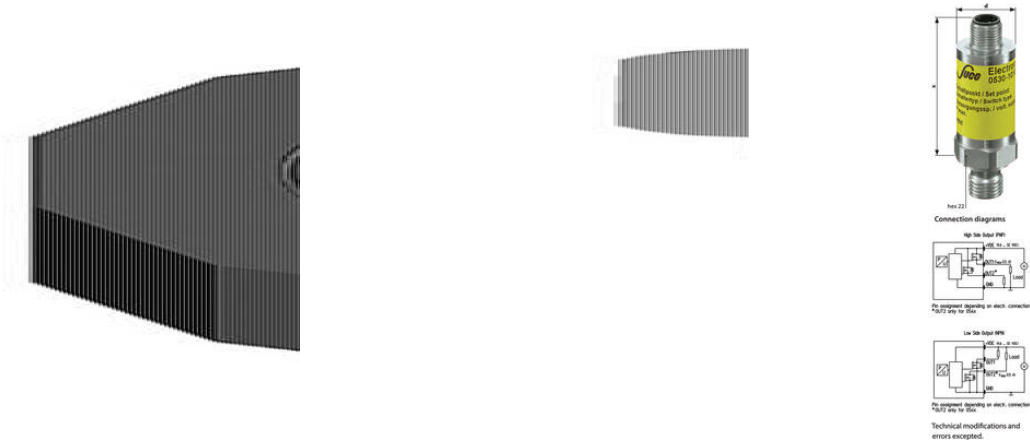
|                           |                                  |
|---------------------------|----------------------------------|
| Temperature of media from | -40 °C                           |
| Temperature of media to   | 125 °C                           |
| Temperature ambient from  | -40 °C                           |
| 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                           | 110 g                                                                              |

SAFETY & APPROVALS

|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| IP class                   | IP65                                                                      |
| Hysteresis                 | 2..99.8% of 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 adjustment range (Full scale) 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                                                         |



| DIN EN 175301-803-A                                         | M 12 - DIN EN 61076-2-101-A                               | ISO 15170-A1-4-1                                            | AMP Superserial                                             |
|-------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
|                                                             |                                                           |                                                             |                                                             |
| Pin Assignment<br>1 Out<br>2 Out<br>3 Gnd<br>4 Out<br>5 Gnd | Pin Assignment<br>1 Out<br>2 NC<br>3 NC<br>4 Out<br>5 Out | Pin Assignment<br>1 Out<br>2 Out<br>3 Gnd<br>4 Out<br>5 Out | Pin Assignment<br>1 Out<br>2 Out<br>3 Gnd<br>4 Out<br>5 Out |
| IP67<br>K = 60/75 mm <sup>3</sup><br>Ø = Ø 30 mm            | IP67<br>K = 54 mm<br>Ø = Ø 22 mm                          | IP67<br>K = 65 mm (max)<br>Ø = Ø 27 mm                      | IP67<br>K = 71 mm<br>Ø = Ø 28 mm                            |
| Order number: 001                                           | Order number: 002                                         | Order number: 004                                           | Order number: 007                                           |

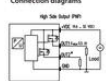
| DEUTSCH DT04-4P                                   | DEUTSCH DT04-3P                                    | Cable connection                                                                 |
|---------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------|
|                                                   |                                                    |                                                                                  |
| Pin Assignment<br>1 Gnd<br>2 Out<br>3 NC<br>4 Out | Pin Assignment<br>1 Out<br>2 Gnd<br>3 Out<br>4 Out | Cable Assignment<br>1 Out<br>2 Out<br>3 Out<br>4 Out                             |
| IP67<br>K = 58 mm<br>Ø = Ø 22 mm                  | IP67<br>K = 58 mm<br>Ø = Ø 22 mm                   | IP67<br>K = 68 mm<br>(ø 20 mm barrel adapt)<br>cable length = 2 m<br>Ø = Ø 22 mm |
| Order number: 008                                 | Order number: 010                                  | Order number: 011                                                                |

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
|                 |                 |                 |                 |
| Thread code: 41 | Thread code: 03 | Thread code: 04 | Thread code: 09 |
|                 |                 |                 |                 |
| Thread code: 09 | Thread code: 00 | Thread code: 21 | Thread code: 42 |



hex 22

Connection diagrams



Pin assignment depending on each connector  
NUTS are for 004



Pin assignment depending on each connector  
NUTS are for 004

Technical modifications and errors excepted.

| DIN EN 175301-803-A                                         | M 12 - DIN EN 61076-2-101-A                               | ISO 15170-A1-4-1                                            | AMP Superserial                                             |
|-------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
|                                                             |                                                           |                                                             |                                                             |
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|---------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------|
|                                                   |                                                    |                                                                                  |
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