



SUCO 0531 ELECTRONIC PRESSURE SWITCH

053110209B002
PNP output (High Side), NC, 0-100 Bar, NPT 1/4, M12 -
DIN EN 61076-2-101-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	M12x1
Process connection	1/4 NPT
Function	Normally Closed (SPST)
Output	PNP
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	80 g

SAFETY & APPROVALS

IP class	IP67
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



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Connection diagrams



4-20 mA output (Vcc = 24 V)



0-5 V output (Vcc = 24 V)

For component selection see also connection diagram for 24 V

Technical modifications and errors excepted.

Figure 1 displays eight technical drawings of different thread types, labeled 41 through 53. Each drawing shows a cross-section of the thread with its dimensions and a label indicating the thread type and its application.

- Thread type 41:** Dimensions: 1/2", 1/4", 1/8". Label: TREAD, 1/2" x 1/4" x 1/8" (1/2" x 1/4" x 1/8").
- Thread type 43:** Dimensions: 1/2", 1/4", 1/8". Label: TREAD, 1/2" x 1/4" x 1/8" (1/2" x 1/4" x 1/8").
- Thread type 44:** Dimensions: 1/2", 1/4", 1/8". Label: TREAD, 1/2" x 1/4" x 1/8" (1/2" x 1/4" x 1/8").
- Thread type 49:** Dimensions: 1/2", 1/4", 1/8". Label: TREAD, 1/2" x 1/4" x 1/8" (1/2" x 1/4" x 1/8").
- Thread type 50:** Dimensions: 1/2", 1/4", 1/8". Label: TREAD, 1/2" x 1/4" x 1/8" (1/2" x 1/4" x 1/8").
- Thread type 51:** Dimensions: 1/2", 1/4", 1/8". Label: TREAD, 1/2" x 1/4" x 1/8" (1/2" x 1/4" x 1/8").
- Thread type 52:** Dimensions: 1/2", 1/4", 1/8". Label: TREAD, 1/2" x 1/4" x 1/8" (1/2" x 1/4" x 1/8").
- Thread type 53:** Dimensions: 1/2", 1/4", 1/8". Label: TREAD, 1/2" x 1/4" x 1/8" (1/2" x 1/4" x 1/8").

[illegible]