



SUCO 0531 ELECTRONIC PRESSURE SWITCH

053125241B002
PNP output (High Side), NC, 0-250 Bar, G 1/4 – DIN
EN ISO 1179-2, 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	250 bar
Adjustment range min	0 bar
Electrical connection	M12x1
Process connection	G1/4
Function	Normally Closed (SPST)
Output	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

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



Pin	Assignment
1	Live
2	Out
3	Out
4	Out

IP67

• 62 / 76 mm²

• Ø 10 mm

Order number: 001

* without cable length = 0.00m, with cable length = 1.00m

Pin	Assignment
1	Live
2	ne
3	ne
4	Out

IP67

• 54 mm

• Ø 11 mm

Order number: 002

* without cable length = 0.00m, with cable length = 1.00m

Pin	Assignment
1	Live
2	ne
3	ne
4	Out

IP67

• 65 mm (max)

• Ø 11 mm

Order number: 004

Pin	Assignment
1	Out
2	Out
3	Live

IP67

• 71 mm

• Ø 20 mm

Order number: 007

Pin	Assignment
1	Out
2	Live
3	ne
4	Out

IP67

• 54 mm

• Ø 11 mm

Order number: 004

Pin	Assignment
A	Live
B	Out
C	Out

IP67

• 54 mm

• Ø 11 mm

Order number: 005

Cable	Assignment
red	Live
white	Out
black	Out

IP67

• 64 mm

(ø 20 mm (bore hole))

cable length = 2 m

• Ø 11 mm

Order number: 011

Thread code: 01

Thread code: 02

Thread code: 03

Thread code: 04

Thread code: 05

Thread code: 06

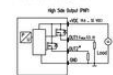
Thread code: 07

Thread code: 08



1402 001 001

Connection diagrams



Pin assignment according to each connector



Pin assignment according to each connector

Technical modifications and errors excepted.

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Pin	Assignment
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Cable	Assignment
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(ø 20 mm (bore hole))

cable length = 2 m

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Thread code: 01

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Thread code: 03

Thread code: 04

Thread code: 05

Thread code: 06

Thread code: 07

Thread code: 08