



SUCO 0531 ELECTRONIC PRESSURE SWITCH

053125209B002
PNP output (High Side), NC, 0-250 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	250 bar
Adjustment range min	0 bar
Electrical connection	M12x1
Process connection	1/4 NPT
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



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Connection diagrams



For component depending on each connection



For component depending on each connection

Technical modifications and errors excepted.

Pin	Assignment
1	Chn
2	Out
3	Out
4	Out
5	Out

IP67
 $\times = 60/70 \text{ mm}^3$
 $\phi = 10 \text{ mm}$
Order number: 001

Pin	Assignment
1	Line
2	NC
3	NC
4	Out

IP67
 $\times = 54 \text{ mm}$
 $\phi = 12/17 \text{ mm}$
Order number: 002

Pin	Assignment
1	Line
2	NC
3	NC
4	Out

IP67
 $\times = 65 \text{ mm}$
 $\phi = 12/17 \text{ mm}$
Order number: 004

Pin	Assignment
1	Out
2	Out
3	Line

IP67
 $\times = 71 \text{ mm}$
 $\phi = 12/18 \text{ mm}$
Order number: 007

Pin	Assignment
1	Chn
2	Line
3	NC
4	Out

IP67
 $\times = 58 \text{ mm}$
 $\phi = 12/21 \text{ mm}$
Order number: 008

Pin	Assignment
1	Line
2	Out
3	Out

IP67
 $\times = 58 \text{ mm}$
 $\phi = 12/21 \text{ mm}$
Order number: 010

Cable connection

Cable	Assignment
red	Line
white	Out
black	Out

IP67
 $\times = 68 \text{ mm}$
 $\phi = 12 \text{ mm}$ (cable length = 2 m)
 $\phi = 12/22 \text{ mm}$
Order number: 011

Thread code: 41

Thread code: 03

Thread code: 04

Thread code: 09

Thread code: 05

Thread code: 10

Thread code: 21

Thread code: 42

Electro 0530-10

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Connection diagrams

High load: 100 A, 24 V, 2.4 kW

Low load: 100 A, 24 V, 2.4 kW

Technical modifications and errors excepted.

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