



SUCO 0531 ELECTRONIC PRESSURE SWITCH

053110142B013
PNP output (High Side), NC, 0-10 Bar, M14x1.5 – DIN
EN ISO 9974-2, 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	10 bar
Adjustment range min	0 bar
Electrical connection	DIN EN 175301-803-A
Process connection	M14x1.5
Function	Normally Closed (SPST)
Output	PNP
Burst pressure	80 bar
Pressure max	40 bar

TEMPERATURE & MATERIALS DATA

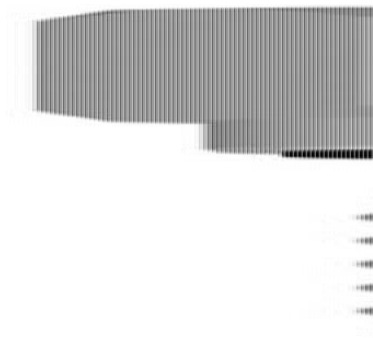
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	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



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Connection diagrams



Technical modifications and errors excepted.

Pin	Assignment
1	Ch+
2	Ch-
3	Ch+
4	Ch-

IP67
 $\times = 60/70 \text{ mm}^2$
 $\phi = 10 \text{ mm}$
Order number: 001

Pin	Assignment
1	Ch+
2	Ch-
3	NC
4	Ch+

IP67
 $\times = 54 \text{ mm}$
 $\phi = 10 \text{ mm}$
Order number: 002

Pin	Assignment
1	Ch+
2	Ch-
3	NC
4	Ch+

IP67
 $\times = 65 \text{ mm}$
 $\phi = 10 \text{ mm}$
Order number: 004

Pin	Assignment
1	Ch+
2	Ch-
3	NC
4	Ch+

IP67
 $\times = 71 \text{ mm}$
 $\phi = 10 \text{ mm}$
Order number: 007

Pin	Assignment
1	Ch+
2	Ch-
3	NC
4	Ch+

IP67
 $\times = 58 \text{ mm}$
 $\phi = 10 \text{ mm}$
Order number: 008

Pin	Assignment
1	Ch+
2	Ch-
3	NC

IP67
 $\times = 58 \text{ mm}$
 $\phi = 10 \text{ mm}$
Order number: 010

Cable connection

Cable	Assignment
red	Ch+
white	Ch-
black	Ch+

IP67
 $\times = 68 \text{ mm}$
 $\phi = 10 \text{ mm}$
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

Electron 0530-10

hex 23

Connection diagrams

High load: 100 A, 250 V, 10 mm²

Low load: 100 A, 250 V, 10 mm²

Technical modifications and errors excepted.

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2	Ch-
3	Ch+
4	Ch-

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 $\phi = 10 \text{ mm}$
Order number: 001

Pin	Assignment
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