



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053325241B004

NPN output (Low Side), NC, 0-250 Bar, G 1/4 – DIN EN ISO 1179-2, Bayonet ISO 15170-A1-4.1

- 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
Process connection	G1/4
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	2000 bar
Pressure max	1000 bar

TEMPERATURE & MATERIALS DATA

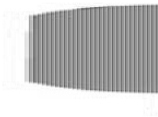
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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, IP6K9K
Hysteresis	2..99.8% of nominal pressure range (full scale), programmable at factory
Shock resistance	500m / s ² ; 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



Item 221

Connection diagrams



Pin assignment depending on each connection
15000 only for 250kPa



Pin assignment depending on each connection
15000 only for 250kPa

Technical modifications and errors excepted.

Pin	Assignment
1	Line
2	Out
3	Out
4	Out

IP67

• 60/75 mm²

• Ø 30 mm

Order number: 001

Pin	Assignment
1	Line
2	NC
3	NC
4	Out

IP67

• 54 mm

• Ø 22 mm

Order number: 002

Pin	Assignment
1	Line
2	NC
3	NC
4	Out

IP67

• 54 mm

• Ø 22 mm

Order number: 004

Pin	Assignment
1	Out
2	Out
3	Line

IP67

• 71 mm

• Ø 20 mm

Order number: 007

Pin	Assignment
1	Line
2	Line
3	NC
4	Out

IP67

• 58 mm

• Ø 22 mm

Order number: 008

Pin	Assignment
1	Line
2	Line
3	Out

IP67

• 58 mm

• Ø 22 mm

Order number: 010

Cable connection

Cable	Assignment
red	Line
white	Out
black	Out

IP67

• 68 mm

Ø 20 mm (cable length = 2 m)

• Ø 22 mm

Order number: 011

Thread code: 41

Thread code: 03

Thread code: 04

Thread code: 09

Thread code: 05

Thread code: 20

Thread code: 21

Thread code: 42

Electron 0530-100

• 71 mm

• Ø 20 mm

Order number: 007

Connection diagrams

High load (100 A)

Low load (10 A)

Pin assignment diagram for each connector

Technical modifications and errors excepted.

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• Ø 20 mm

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