



SUCO 0531 ELECTRONIC PRESSURE SWITCH

053110130B010
PNP output (High Side), NC, 0-10 Bar, M10x1 zyl. DIN
3852-A, Deutsch DT04-3P

- 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	Deutsch DT04-3P
Process connection	M10x1
Function	Normally Closed (SPST)
Output	PNP
Burst pressure	80 bar
Pressure max	40 bar

TEMPERATURE & MATERIALS DATA

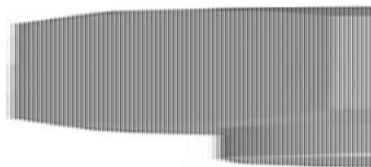
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	80 g

SAFETY & APPROVALS

IP class	IP67, IP6K9K
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	Chn
2	Out
3	Out
4	Out
5	Out

IP67

• 60/75 mm³

• D 30 mm

Order number: 001

Pin	Assignment
1	Line
2	NC
3	NC
4	Out

IP67

• 54 mm

• D 22 mm

Order number: 002

Pin	Assignment
1	Line
2	NC
3	NC
4	Out

IP67

• 54 mm

• D 22 mm

Order number: 004

Pin	Assignment
1	Out
2	Out
3	Out
4	Out

IP67

• 71 mm

• D 28 mm

Order number: 007

Pin	Assignment
1	Chn
2	Line
3	NC
4	Out

IP67

• 58 mm

• D 22 mm

Order number: 008

Pin	Assignment
1	Line
2	Out
3	Out

IP67

• 58 mm

• D 22 mm

Order number: 010

Cable connection

Cable	Assignment
red	Line
white	Out
black	Out

IP67

• 68 mm

(a 20 mm band adjust)

Order number: 011

Electron 0530-100

hex 22

Connection diagrams

High 500 Watt PNP

Low 500 Watt NPN

Pin assignment diagram for each connector

Technical modifications and errors excepted.

Pin	Assignment
1	Chn
2	Out
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4	Out
5	Out

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Pin	Assignment
1	Line
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3	NC
4	Out

IP67

• 54 mm

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