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SUCO 0533 ELECTRONIC PRESSURE SWITCH

053325242B011
NPN output (Low Side), NC, 0-250 Bar, M14x1.5 – DIN EN ISO 9974-2, Cable connection

- 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	Embedded 2m cable
Process connection	M14x1.5
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	2000 bar
Pressure max	1000 bar

TEMPERATURE & MATERIALS DATA

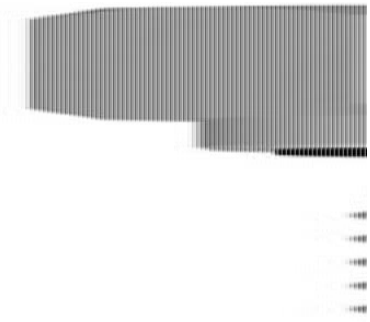
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	135 g

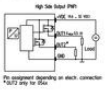
SAFETY & APPROVALS

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



Connection diagrams

High Side Output (PNP)



Pin assignment depending on elect. connection
*OUT2 only for IOLink

Low Side Output (NPN)

Pin assignment depending on elect. connection
*OUT2 only for IOLink

Technical modifications and errors excepted.

DIN EN 175301-803-A

Pin	Assignment
1	Uv+
2	Out
3	Gnd
PE	⏚
IP65	
x ~ 60 / 76 mm*	
d ~ Ø 30 mm	
Order number: 001	

* without coupler socket x ~ 60 mm, with coupler socket x ~ 76 mm

M 12 – DIN EN 61076-2-101 A

Pin	Assignment
1	Uv+
2	nc
3	Gnd
4	Out
IP67	
x ~ 54 mm	
d ~ Ø 22 mm	
Order number: 002	

ISO 15170-A1–6.1

Pin	Assignment
1	Uv+
2	nc
3	Gnd
4	Out
IP67, IP69K	
x ~ 65 mm mm	
d ~ Ø 27 mm	
Order number: 004	

AMP Superseal

Pin	Assignment
1	Out
2	Gnd
3	Uv+
IP67	
x ~ 71 mm	
d ~ Ø 26 mm	
Order number: 007	

DEUTSCH DT04-4P

Pin	Assignment
1	Gnd
2	Uv+
3	nc
4	Out
IP67, IP69K	
x ~ 74 mm	
d ~ Ø 23 mm	
Order number: 008	

DEUTSCH DT04-3P

Pin	Assignment
A	Uv+
B	Gnd
C	Out
IP67, IP69K	
x ~ 78 mm	
d ~ Ø 23 mm	
Order number: 010	

Cable connection

Cable	Assignment
red	Uv+
white	Out
black	Gnd
IP67	
x ~ 44 mm (+ 20 mm bend relief) cable length ~ 2 m	
d ~ Ø 22 mm	
Order number: 011	

Thread code: 41

Thread code: 03

Thread code: 04

Thread code: 09

Thread code: 20

Thread code: 02

Thread code: 21

Thread code: 42