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SUCO 0532 ELECTRONIC PRESSURE SWITCH

053260221B011
NPN output (Low Side), NO, 0-600 Bar, 9/16 – 18 UNF, 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	600 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	9/16-18UNF
Function	Normally open (SPST)
Output	NPN
Burst pressure	2000 bar
Pressure max	1650 bar

TEMPERATURE & MATERIALS DATA

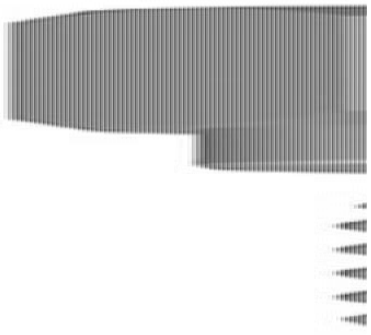
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

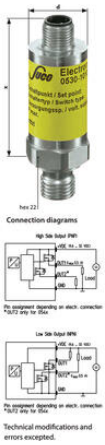
ADDITIONAL DATA

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

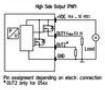
IP class	IP67
Hysteresis	2..99.8% of nominal pressure range (full scale), programmable at factory
Shock resistance	500m / s²; 11 ms half sine wave; DIN EN 60068-2-27
Vibration resistance	20g: 4..2000 Hz sine wave, DIN EN 60068-2-6
EMC	EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007
Accuracy	±0.5 % 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	M 12 – DIN EN 61076-2-101 A	ISO 15170-A1-6.1	AMP Superseal
			
Pin / Assignment 1 / Uv+ 2 / Out 3 / Gnd PE / ⏚	Pin / Assignment 1 / Uv+ 2 / nc 3 / Gnd 4 / Out	Pin / Assignment 1 / Uv+ 2 / nc 3 / Gnd 4 / Out	Pin / Assignment 1 / Out 2 / Gnd 3 / Uv+
IP65 x ~ 60 / 76 mm* d ~ Ø 30 mm	IP67 x ~ 54 mm d ~ Ø 22 mm	IP67, IP69K x ~ 65 mm mm d ~ Ø 27 mm	IP67 x ~ 71 mm d ~ Ø 26 mm
Order number: 001	**Order number: 002**	**Order number: 004**	**Order number: 007**

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

DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection
		
Pin / Assignment 1 / Gnd 2 / Uv+ 3 / nc 4 / Out	Pin / Assignment A / Uv+ B / Gnd C / Out	Cable / Assignment red / Uv+ white / Out black / Gnd
IP67, IP69K x ~ 34 mm d ~ Ø 23 mm	IP67, IP69K x ~ 39 mm d ~ Ø 23 mm	IP67 x ~ 44 mm (+ 20 mm bend relief) cable length ~ 2 m d ~ Ø 22 mm
Order number: 008	**Order number: 010**	**Order number: 011**

			
Thread code: 41	**Thread code: 03**	**Thread code: 04**	**Thread code: 09**
			
Thread code: 20	**Thread code: 20**	**Thread code: 21**	**Thread code: 42**