



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053325204B013
NPN output (Low Side), NC, 0-250 Bar, NPT 1/8, 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	250 bar
Adjustment range min	0 bar
Electrical connection	DIN EN 175301-803-A
Process connection	1/8 NPT
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	2000 bar
Pressure max	1000 bar

TEMPERATURE & MATERIALS DATA

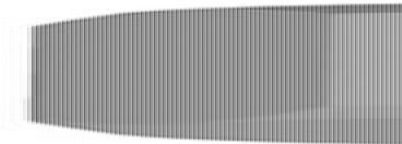
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	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



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Thread code: 45	Thread code: 46	Thread code: 47	Thread code: 48
 Ø = 54 mm L = 22 mm Order number: 012	 Ø = 54 mm L = 22 mm Order number: 013	 Ø = 54 mm L = 22 mm Order number: 014	 Ø = 54 mm L = 22 mm Order number: 015



Connection diagrams



Pin assignment diagram for each connector



Pin assignment diagram for each connector

Technical modifications and errors excepted.

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7	NC																																																							
8	NC																																																							
Ø = 54 mm L = 22 mm Order number: 004	Ø = 54 mm L = 22 mm Order number: 005	Ø = 54 mm L = 22 mm Order number: 006																																																						

Thread code: 41	Thread code: 42	Thread code: 43	Thread code: 44
 Ø = 54 mm L = 22 mm Order number: 008	 Ø = 54 mm L = 22 mm Order number: 009	 Ø = 54 mm L = 22 mm Order number: 010	 Ø = 54 mm L = 22 mm Order number: 011

Thread code: 45	Thread code: 46	Thread code: 47	Thread code: 48
 Ø = 54 mm L = 22 mm Order number: 012	 Ø = 54 mm L = 22 mm Order number: 013	 Ø = 54 mm L = 22 mm Order number: 014	 Ø = 54 mm L = 22 mm Order number: 015