



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053310209B013
NPN output (Low Side), NC, 0-100 Bar, NPT 1/4, 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	100 bar
Adjustment range min	0 bar
Electrical connection	DIN EN 175301-803-A
Process connection	1/4 NPT
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	800 bar
Pressure max	400 bar

TEMPERATURE & MATERIALS DATA

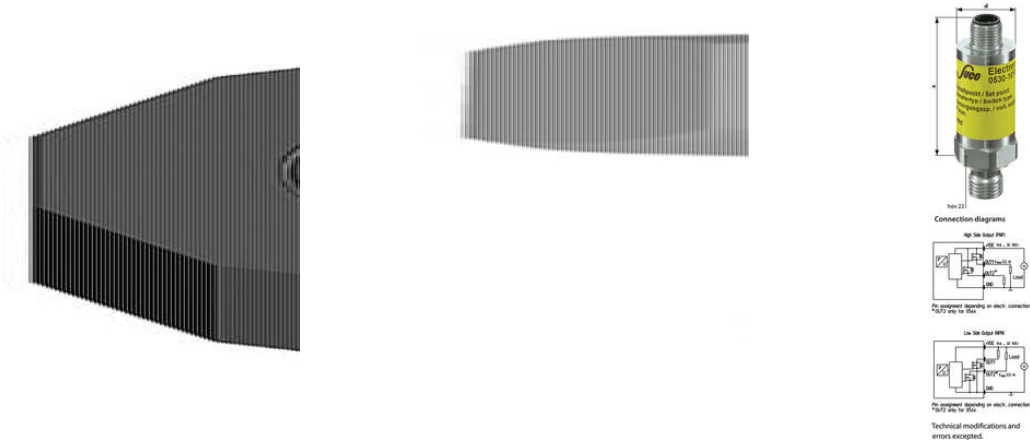
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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



DIN EN 175301-803-A	M 12 - DIN EN 61076-2-101-A	ISO 15170-A1-A1	AMP Superserial
			
Pin Assignment 1 Out 2 Out 3 Gnd 4 Gnd 5 Gnd	Pin Assignment 1 Out 2 Out 3 Out 4 Out 5 Out	Pin Assignment 1 Out 2 Out 3 Out 4 Out 5 Out	Pin Assignment 1 Out 2 Out 3 Out 4 Out 5 Out
IP67 K = 60/75 mm ³ Ø = Ø 30 mm	IP67 K = 54 mm Ø = Ø 27 mm	IP67 K = 65 mm (max) Ø = Ø 28 mm	IP67 K = 71 mm Ø = Ø 28 mm
Order number: 001	Order number: 002	Order number: 004	Order number: 007

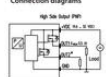
DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection
		
Pin Assignment 1 Out 2 Out 3 Out 4 Out	Pin Assignment 1 Out 2 Out 3 Out 4 Out	Cable Assignment 1 Out 2 Out 3 Out 4 Out
IP67 K = 58 mm Ø = Ø 21 mm	IP67 K = 58 mm Ø = Ø 21 mm	IP67 K = 68 mm Ø = Ø 21 mm
Order number: 008	Order number: 010	Order number: 011

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



hex 23

Connection diagrams



Pin assignment depending on each connector
100A only for 004



Pin assignment depending on each connector
100A only for 004

Technical modifications and errors excepted.

DIN EN 175301-803-A	M 12 - DIN EN 61076-2-101-A	ISO 15170-A1-A1	AMP Superserial
			
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Thread code: 09	Thread code: 09	Thread code: 21	Thread code: 42