



SUCO 0531 ELECTRONIC PRESSURE SWITCH

053125120B013
PNP output (High Side), NC, 0-25 Bar, 7/16 – 20 UNF,
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	25 bar
Adjustment range min	0 bar
Electrical connection	DIN EN 175301-803-A
Function	Normally Closed (SPST)
Output	PNP
Burst pressure	200 bar
Pressure max	100 bar

TEMPERATURE & MATERIALS DATA

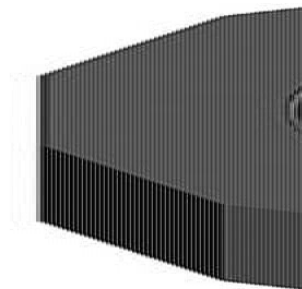
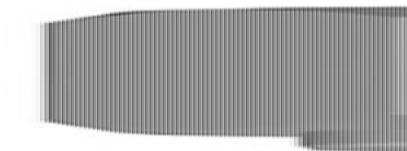
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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

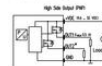
SAFETY & APPROVALS

IP class	IP65
Hysteresis	2..99.8% of nominal pressure range (full scale), programmable at factory
Shock resistance	500m / s ² ; 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



Item 221

Connection diagrams



For component depending on each connection
1000 mV for 100 mA



For component depending on each connection
1000 mV for 100 mA

Technical modifications and errors excepted.

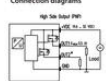
DIN EN 175301-803-A	M 12 - DIN EN 61076-2-101-A	ISO 15170-A1-4-1	AMP Superserial
Pin Assignment 1 Out 2 Out 3 Gnd 4 Out 5 Gnd	Pin Assignment 1 Out 2 NC 3 NC 4 Out 5 Out	Pin Assignment 1 Out 2 Out 3 Gnd 4 Out 5 Out	Pin Assignment 1 Out 2 Out 3 Gnd 4 Out 5 Out
IP67 K = 60/75 mm ² Ø = Ø 30 mm	IP67 K = 54 mm Ø = Ø 22 mm	IP67 K = 65 mm (max) Ø = Ø 27 mm	IP67 K = 75 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 Gnd 2 Out 3 NC 4 Out	Pin Assignment 1 Out 2 Gnd 3 Out 4 Out	Cable Assignment 1 Out 2 Out 3 Out 4 Out
IP67 K = 58 mm Ø = Ø 22 mm	IP67 K = 58 mm Ø = Ø 22 mm	IP67 K = 68 mm (ø 20 mm barrel adapt) cable length = 2 m Ø = 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: 09	Thread code: 00	Thread code: 21	Thread code: 42



Connection diagrams



Pin assignment depending on each connector



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Technical modifications and errors excepted.

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