



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053325220B007

NPN output (Low Side), NC, 0-250 Bar, 7/16 – 20 UNF, AMP Superseal 1.5

- 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	AMP Superseal
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	2000 bar
Pressure max	1000 bar

TEMPERATURE & MATERIALS DATA

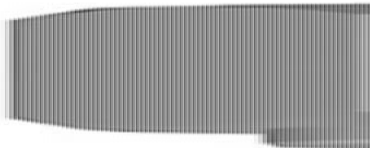
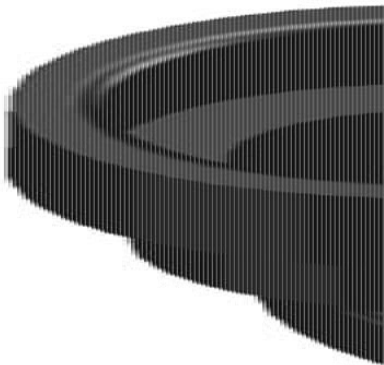
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	80 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



Item 221

Connection diagrams



Pin assignment depending on each connection
*NPN only for SDA



Pin assignment depending on each connection
*NPN only for SDA

Technical modifications and errors excepted.

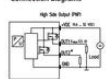
DIN EN 175301-803-A	M 12 - DIN EN 61076-2-101-A	ISO 15170-A1-4-1	AMP Superserial
Pin Assignment 1 Out 2 Out 3 Gnd 4 Out 5 Gnd	Pin Assignment 1 Out 2 NC 3 NC 4 Out 5 Out	Pin Assignment 1 Out 2 Out 3 Gnd 4 Out 5 Out	Pin Assignment 1 Out 2 Out 3 Gnd 4 Out 5 Out
IP67 K = 60/75 mm ² Ø = Ø 30 mm	IP67 K = 54 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



Pin assignment depending on each connector

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