



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053310209B011

NPN output (Low Side), NC, 0-100 Bar, NPT 1/4, 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	100 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	1/4 NPT
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	800 bar
Pressure max	400 bar

TEMPERATURE & MATERIALS DATA

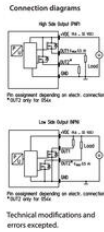
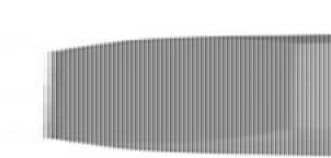
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	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



DIN EN 175305-803-A

Pin	Assignment
1	Ctrl
2	Out
3	Out
4	Out

PNP

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 001

M 12 - DIN EN 41576-2-101-A

Pin	Assignment
1	Ctrl
2	Out
3	Out
4	Out

PNP

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 002

ISO 15170-A1-A1

Pin	Assignment
1	Ctrl
2	Out
3	Out
4	Out

PNP

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 003

AMP Superseal

Pin	Assignment
1	Ctrl
2	Out
3	Out
4	Out

PNP

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 007

DEUTSCH DT04-4P

Pin	Assignment
1	Ctrl
2	Out
3	Out
4	Out

PNP

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 008

DEUTSCH DT04-3P

Pin	Assignment
1	Ctrl
2	Out
3	Out
4	Out

PNP

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 009

Cable connection

Pin	Assignment
1	Ctrl
2	Out
3	Out
4	Out

PNP

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 011

Thread code: 01

Thread code: 01

Thread code: 02

Thread code: 02

Thread code: 03

Thread code: 03

Thread code: 04

Thread code: 04

Thread code: 05

Thread code: 05

Thread code: 06

Thread code: 06

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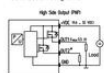
Thread code: 100

Thread code: 100

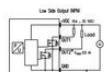


h=40 mm
Ø=22 mm

Connection diagrams



Do not connect directly to each connector
Vcc and I- only to GND



Do not connect directly to each connector
Vcc and V- only to GND

Technical modifications and errors excepted.

DN EN 175301-803-A	M 12 - DN EN 61076-2-001 A	ISO 15175-A1-4.1	AMP Superseal
Pin Assignment 1 Vcc 2 Out 3 Gnd 4 Out IP67	Pin Assignment 1 Vcc 2 In 3 Gnd 4 Out IP67	Pin Assignment 1 Vcc 2 In 3 Gnd 4 Out IP67	Pin Assignment 1 Out 2 Gnd 3 Vcc 4 In IP67
Ø = 60 / 76 mm ^Ø Ø = 10 mm Order number: 000	Ø = 54 mm Ø = 10 mm Order number: 002	Ø = 65 mm Ø = 10 mm Order number: 004	Ø = 73 mm Ø = 10 mm Order number: 007
*without cable (cable = 20m), with cable length = 2m			
DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection	
Pin Assignment 1 Gnd 2 Vcc 3 V+ 4 Out IP67	Pin Assignment A Vcc B Gnd C Out IP67	Color Assignment Red Vcc White Out Black Gnd IP67	
Ø = 38 mm Ø = 10 mm Order number: 008	Ø = 38 mm Ø = 10 mm Order number: 009	Ø = 64 mm Ø = 20 mm (cable length = 2 m) Ø = 10 mm Order number: 011	
Thread code: 01	Thread code: 02	Thread code: 03	Thread code: 04
Thread code: 05	Thread code: 06	Thread code: 07	Thread code: 08