



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053310241B011

NPN output (Low Side), NC, 0-100 Bar, G 1/4 – DIN EN ISO 1179-2, 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	G1/4
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	800 bar
Pressure max	400 bar

TEMPERATURE & MATERIALS DATA

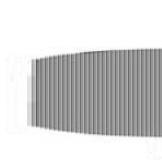
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	Ctrl
3	Ctrl
4	Ctrl

PNP

• 10 x 10 mm

• 10 x 10 mm

Order number: 001

M 12 - DIN EN 4579-2-101-A

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PNP

• 10 x 10 mm

• 10 x 10 mm

Order number: 002

ISO 15170-A1-A1

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PNP

• 10 x 10 mm

• 10 x 10 mm

Order number: 003

AMP Superseal

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PNP

• 10 x 10 mm

• 10 x 10 mm

Order number: 007

DEUTSCH DT04-4P

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PNP

• 10 x 10 mm

• 10 x 10 mm

Order number: 008

DEUTSCH DT04-3P

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PNP

• 10 x 10 mm

• 10 x 10 mm

Order number: 009

Cable connection

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

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

Thread code: 07

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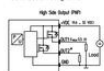
Thread code: 100

Thread code: 100

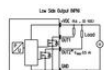


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Connection diagrams



Do not connect directly to each connector
NUT only for 0630



Do not connect directly to each connector
NUT only for 0630

Technical modifications and errors excepted.

DR EN 175301-803-A	M 12 - DR EN 61076-3-001 A	ISO 15715-A1-4-1	AMP Superseal
Pin Assignment 1 U _{exc} 2 Out 3 Out 4 Out IP67	Pin Assignment 1 U _{exc} 2 in 3 Out 4 Out IP67	Pin Assignment 1 U _{exc} 2 in 3 Out 4 Out IP67, IP69K	Pin Assignment 1 Out 2 Out 3 U _{exc} IP67
Order number: 001	Order number: 002	Order number: 004	Order number: 005
*without cable socket = 000, with cable socket = 006			
DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection	
Pin Assignment 1 Out 2 U _{exc} 3 in 4 Out IP67	Pin Assignment 1 U _{exc} 2 Out 3 Out IP67	Pin Assignment 1 U _{exc} 2 white 3 black 4 Out IP67	
Order number: 008	Order number: 009	Order number: 011	