



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053310141B013
NPN output (Low Side), NC, 0-10 Bar, G 1/4 – DIN EN
ISO 1179-2, 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	10 bar
Adjustment range min	0 bar
Electrical connection	DIN EN 175301-803-A
Process connection	G1/4
Function	Normally Closed
Output	NPN
Burst pressure	80 bar
Pressure max	40 bar

TEMPERATURE & MATERIALS DATA

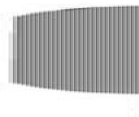
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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

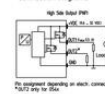
SAFETY & APPROVALS

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



Pin assignment depending on each connection

PS12 5pin for 5SA...



Pin assignment depending on each connection

PS12 12pin for 5SA...

Technical modifications and errors excepted.

DIN EN 57320-803-A

Pin	Assignment
1	Line
2	ChF
3	ChF
4	ChF

PIN: 4
 Ø1: - 40 / 16 mm^Ø
 Ø: - 10 mm
 Order number: 001

M 12 - DIN EN 61756-3-161-A

Pin	Assignment
1	Line
2	nc
3	ChF
4	ChF

PIN: 4
 Ø1: - 24 mm
 Ø: - 12.7 mm
 Order number: 002

ISO 15170-A1-A1

Pin	Assignment
1	Line
2	nc
3	ChF
4	ChF

PIN: 4
 Ø1: - 33 mm
 Ø: - 12.7 mm
 Order number: 004

AMP Superseal

Pin	Assignment
1	ChF
2	ChF
3	Line
4	Line

PIN: 4
 Ø1: - 11 mm
 Ø: - 12.7 mm
 Order number: 007

DEUTSCH DT04-4P

Pin	Assignment
1	ChF
2	Line
3	ChF
4	ChF

PIN: 4
 Ø1: - 14 mm
 Ø: - 12.7 mm
 Order number: 008

DEUTSCH DT04-3P

Pin	Assignment
1	Line
2	ChF
3	ChF

PIN: 3
 Ø1: - 14 mm
 Ø: - 12.7 mm
 Order number: 010

Cable connection

Cable	Assignment
red	Line
white	ChF
black	ChF

PIN: 4
 Ø1: - 14 mm
 In 10 mm length add! cable length: - 7 m
 Ø: - 12.7 mm
 Order number: 011

Thread code: 01

Thread code: 03

Thread code: 04

Thread code: 08

Thread code: 09

Thread code: 10

Thread code: 11

Thread code: 12