



SUCO 0531 ELECTRONIC PRESSURE SWITCH

053125230B011
PNP output (High Side), NC, 0-250 Bar, M10x1 zyl. DIN 3852-A, 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	250 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	M10x1
Function	Normally Closed (SPST)
Output	PNP
Burst pressure	2000 bar
Pressure max	1000 bar

TEMPERATURE & MATERIALS DATA

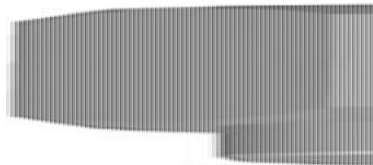
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	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	Common
2	Output
3	Ground
4	Output

IP67

• 100 x 10 mm

• 10 x 10 mm

Order number: 001

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

Pin	Assignment
1	Common
2	Output
3	Ground
4	Output

IP67

• 100 x 10 mm

• 10 x 10 mm

Order number: 002

ISO 15170-A1-A1

Pin	Assignment
1	Common
2	Output
3	Ground
4	Output

IP67

• 100 x 10 mm

• 10 x 10 mm

Order number: 003

AMP Superseal

Pin	Assignment
1	Common
2	Output
3	Ground
4	Output

IP67

• 100 x 10 mm

• 10 x 10 mm

Order number: 004

DEUTSCH DT04-4P

Pin	Assignment
1	Common
2	Output
3	Ground
4	Output

IP67

• 100 x 10 mm

• 10 x 10 mm

Order number: 005

DEUTSCH DT04-3P

Pin	Assignment
1	Common
2	Output
3	Output

IP67

• 100 x 10 mm

• 10 x 10 mm

Order number: 006

Cable connection

Cable	Assignment
1	Common
2	Output
3	Ground
4	Output

IP67

• 100 x 10 mm

• 10 x 10 mm

Order number: 007

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

Thread code 07

Thread code 08

Thread code 08

Thread code 09

Thread code 09

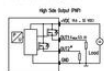
Thread code 10

Thread code 10

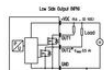


haz 221

Connection diagrams



Do not connect directly to each connector
Vcc 2 only for 0-5V



Do not connect directly to each connector
Vcc 2 only for 0-5V

Technical modifications and errors excepted.

DN EN 175301-803-A	M 12 - DN EN 61076-3-001 A	ISO 15715-A1-4-1	AMP Superseal
Pin Assignment 1 Vcc 2 Out 3 Gnd 4 Out IP67 • 60 / 70 mm ² • Ø 10 mm Order number: 001 * without copper shield 4P - 15 mm	Pin Assignment 1 Vcc 2 In 3 Gnd 4 Out IP67 • 54 mm • Ø 11 mm Order number: 002	Pin Assignment 1 Vcc 2 In 3 Gnd 4 Out IP67 • 65 mm • Ø 11 mm Order number: 004	Pin Assignment 1 Out 2 Gnd 3 Vcc 4 In IP67 • 71 mm • Ø 16 mm Order number: 007
DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection	
Pin Assignment 1 Gnd 2 Vcc 3 Vcc 4 Out IP67 • 38 mm • Ø 11 mm Order number: 008	Pin Assignment A Vcc B Gnd C Out IP67 • 38 mm • Ø 11 mm Order number: 009	Color Assignment Red Vcc White Out Black Gnd IP67 • 64 mm • 20 mm band width • Cable length = 2 m • Ø 11 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