



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053325130B011

NPN output (Low Side), NC, 0-25 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	25 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	M10x1
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	200 bar
Pressure max	100 bar

TEMPERATURE & MATERIALS DATA

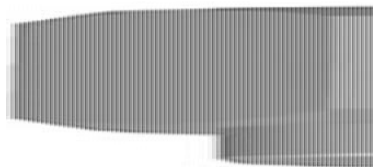
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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

• 10 x 10 mm

• 10 x 10 mm

Order number: 001

M 12 - DIN EN 43756-2-101-A

Pin	Assignment
1	Common
2	Output
3	Ground
4	Output

IP67

• 10 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

• 10 x 10 mm

• 10 x 10 mm

Order number: 003

AMP Superseal

Pin	Assignment
1	Common
2	Output
3	Ground
4	Output

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 004

DEUTSCH DT04-4P

Pin	Assignment
1	Common
2	Output
3	Ground
4	Output

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 005

DEUTSCH DT04-3P

Pin	Assignment
1	Common
2	Output
3	Ground

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 006

Cable connection

Cable	Assignment
Red	Common
White	Output
Black	Ground

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 007

Thread code 01

Thread code 02

Thread code 03

Thread code 04

Thread code 05

Thread code 06

Thread code 07

Thread code 08

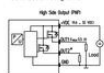
Thread code 09

Thread code 10

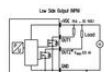


h=22

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 15175-A1-4-1	AMP Superseal																																								
																																											
<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Vcc</td></tr><tr><td>2</td><td>Out</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 60 / 70 mm² • Ø 10 mm Order number: 001	Pin	Assignment	1	Vcc	2	Out	3	Gnd	4	Out	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Vcc</td></tr><tr><td>2</td><td>Out</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 54 mm • Ø 11 mm Order number: 002	Pin	Assignment	1	Vcc	2	Out	3	Gnd	4	Out	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Vcc</td></tr><tr><td>2</td><td>Out</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67, IP69K • 65 mm • Ø 11 mm Order number: 004	Pin	Assignment	1	Vcc	2	Out	3	Gnd	4	Out	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Out</td></tr><tr><td>2</td><td>Gnd</td></tr><tr><td>3</td><td>Vcc</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 71 mm • Ø 16 mm Order number: 007	Pin	Assignment	1	Out	2	Gnd	3	Vcc	4	Out
Pin	Assignment																																										
1	Vcc																																										
2	Out																																										
3	Gnd																																										
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3	Vcc																																										
4	Out																																										
*without cable length = 0.00m, with cable length = 2.00m																																											
DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection																																									
																																											
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Pin	Assignment																																										
1	Gnd																																										
2	Vcc																																										
3	Vcc																																										
4	Out																																										
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