



SUCO 0531 ELECTRONIC PRESSURE SWITCH

053110209B011

PNP output (High 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	PNP
Burst pressure	800 bar
Pressure max	400 bar

TEMPERATURE & MATERIALS DATA

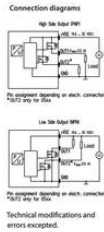
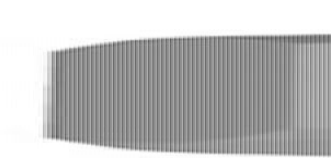
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	Comm
2	Out
3	Out
4	Out
5	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 001

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

Pin	Assignment
1	Comm
2	Out
3	Out
4	Out
5	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 002

ISO 15170-A1-A1

Pin	Assignment
1	Comm
2	Out
3	Out
4	Out
5	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 003

AMP Superseal

Pin	Assignment
1	Comm
2	Out
3	Out
4	Out
5	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 004

DEUTSCH DT04-4P

Pin	Assignment
1	Comm
2	Out
3	Out
4	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 005

DEUTSCH DT04-3P

Pin	Assignment
1	Comm
2	Out
3	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 006

Cable connection

Cable	Assignment
1	Comm
2	Out
3	Out
4	Out

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

Thread code: 11

Thread code: 12

Thread code: 13

Thread code: 14

Thread code: 15

Thread code: 16

Thread code: 17

Thread code: 18

Thread code: 19

Thread code: 20

Thread code: 21

Thread code: 22

Thread code: 23

Thread code: 24

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Thread code: 26

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Thread code: 84

Thread code: 85

Thread code: 86

Thread code: 87

Thread code: 88

Thread code: 89

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Thread code: 91

Thread code: 92

Thread code: 93

Thread code: 94

Thread code: 95

Thread code: 96

Thread code: 97

Thread code: 98

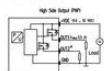
Thread code: 99

Thread code: 100

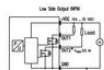


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Connection diagrams



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.

DN EN 175301-803-A	M 12 - DIN EN 61076-3-001 A	ISO 15715-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 * without copper socket = 70 mm	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>In</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	In	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>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 65 mm • Ø 11 mm Order number: 004	Pin	Assignment	1	Vcc	2	In	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: 003	Pin	Assignment	1	Out	2	Gnd	3	Vcc	4	Out
Pin	Assignment																																										
1	Vcc																																										
2	Out																																										
3	Gnd																																										
4	Out																																										
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Pin	Assignment																																										
1	Gnd																																										
2	Vcc																																										
3	Vcc																																										
4	Out																																										
Pin	Assignment																																										
A	Vcc																																										
B	Gnd																																										
C	Out																																										
Color	Assignment																																										
Red	Vcc																																										
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