



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053310203B011
NPN output (Low Side), NC, 0-100 Bar, G 1/4 – 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	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

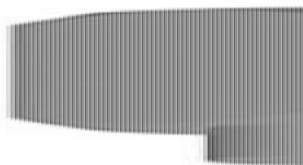
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	Out
3	Ctrl
4	Out

PS

PS1

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 001

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

Pin	Assignment
1	Ctrl
2	Out
3	Ctrl
4	Out

PS

PS1

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 002

ISO 15170-A1-A1

Pin	Assignment
1	Ctrl
2	Out
3	Ctrl
4	Out

PS

PS1

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 003

AMP Superseal

Pin	Assignment
1	Ctrl
2	Out
3	Ctrl
4	Out

PS

PS1

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 004

DEUTSCH DT04-4P

Pin	Assignment
1	Ctrl
2	Out
3	Ctrl
4	Out

PS

PS1

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 005

DEUTSCH DT04-3P

Pin	Assignment
1	Ctrl
2	Out
3	Ctrl

PS

PS1

• = 10 x 10 mm

• = 10 x 10 mm

Order number: 006

Cable connection

Cable	Assignment
1	Ctrl
2	Out
3	Ctrl
4	Out

PS

PS1

• = 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

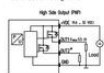
Thread code: 09

Thread code: 10

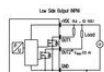


haz 221

Connection diagrams



Do not connect directly to each connector
Vcc 2 only for 4-20 mA



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: 000	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 • 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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2	Gnd																																										
3	Vcc																																										
4	Out																																										
*without single socket = 0 mm, with single socket = 5 mm																																											
DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection																																									
<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Gnd</td></tr><tr><td>2</td><td>Vcc</td></tr><tr><td>3</td><td>Vcc</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 38 mm • Ø 11 mm Order number: 008	Pin	Assignment	1	Gnd	2	Vcc	3	Vcc	4	Out	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>A</td><td>Vcc</td></tr><tr><td>B</td><td>Gnd</td></tr><tr><td>C</td><td>Out</td></tr></table> IP67 • 38 mm • Ø 11 mm Order number: 009	Pin	Assignment	A	Vcc	B	Gnd	C	Out	<table><tr><th>Color</th><th>Assignment</th></tr><tr><td>Red</td><td>Vcc</td></tr><tr><td>White</td><td>Out</td></tr><tr><td>Black</td><td>Gnd</td></tr></table> IP67 • 64 mm • 20 mm band width • Cable length = 2 m • Ø 11 mm Order number: 011		Color	Assignment	Red	Vcc	White	Out	Black	Gnd														
Pin	Assignment																																										
1	Gnd																																										
2	Vcc																																										
3	Vcc																																										
4	Out																																										
Pin	Assignment																																										
A	Vcc																																										
B	Gnd																																										
C	Out																																										
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