



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053310230B011
NPN output (Low Side), NC, 0-100 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	100 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	M10x1
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	800 bar
Pressure max	400 bar

TEMPERATURE & MATERIALS DATA

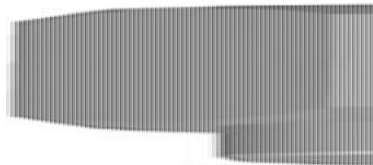
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	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

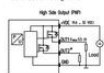
Thread code: 09

Thread code: 10

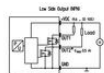


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Connection diagrams



Do not connect directly to each connector
V_{CC} only to GND



Do not connect directly to each connector
V_{CC} only to GND

Technical modifications and errors excepted.

DR EN 175301-803-A	M 12 - DR 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>V_{CC}</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 Ø = 62 / 76 mm^Ø Ø = 10 mm Ø = 10 mm Order number: 001	PIN	Assignment	1	V _{CC}	2	Out	3	Gnd	4	Out	<table><tr><th>PIN</th><th>Assignment</th></tr><tr><td>1</td><td>V_{CC}</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 Ø = 54 mm Ø = 10 mm Ø = 10 mm Order number: 002	PIN	Assignment	1	V _{CC}	2	Out	3	Gnd	4	Out	<table><tr><th>PIN</th><th>Assignment</th></tr><tr><td>1</td><td>V_{CC}</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 Ø = 65 mm Ø = 10 mm Ø = 10 mm Order number: 004	PIN	Assignment	1	V _{CC}	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>V_{CC}</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 Ø = 73 mm Ø = 10 mm Ø = 10 mm Order number: 007	PIN	Assignment	1	Out	2	Gnd	3	V _{CC}	4	Out
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1	V _{CC}																																										
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* without capacitor cable length = 10 mm																																											
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