



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053325109B011

NPN output (Low Side), NC, 0-25 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	25 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	1/4 NPT
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	200 bar
Pressure max	100 bar

TEMPERATURE & MATERIALS DATA

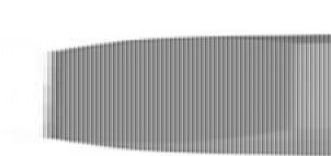
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	Comm
2	Out
3	Out
4	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 001

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

Pin	Assignment
1	Comm
2	Out
3	Out
4	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

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 003

AMP Superseal

Pin	Assignment
1	Comm
2	Out
3	Out
4	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 007

DEUTSCH DT04-4P

Pin	Assignment
1	Comm
2	Out
3	Out
4	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 008

DEUTSCH DT04-3P

Pin	Assignment
1	Comm
2	Out
3	Out

IP67

• 10 x 10 mm

• 10 x 10 mm

Order number: 009

Cable connection

Cable	Assignment
Red	Comm
White	Out
Black	Out

IP67

• 10 x 10 mm

• 10 x 10 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

Thread code 09

Thread code 10

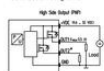
Thread code 11

Thread code 12

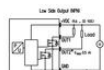


haz 221

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.

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>U_{exc}</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 • 60 / 70 mm² • Ø 10 mm Order number: 000	PIN	Assignment	1	U _{exc}	2	in	3	Gnd	4	Out	<table><tr><th>PIN</th><th>Assignment</th></tr><tr><td>1</td><td>U_{exc}</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	U _{exc}	2	in	3	Gnd	4	Out	<table><tr><th>PIN</th><th>Assignment</th></tr><tr><td>1</td><td>U_{exc}</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, IP69K • 65 mm • Ø 11 mm Order number: 004	PIN	Assignment	1	U _{exc}	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>U_{exc}</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	U _{exc}	4	Out
PIN	Assignment																																										
1	U _{exc}																																										
2	in																																										
3	Gnd																																										
4	Out																																										
PIN	Assignment																																										
1	U _{exc}																																										
2	in																																										
3	Gnd																																										
4	Out																																										
PIN	Assignment																																										
1	U _{exc}																																										
2	in																																										
3	Gnd																																										
4	Out																																										
PIN	Assignment																																										
1	Out																																										
2	Gnd																																										
3	U _{exc}																																										
4	Out																																										
*without-cable socket = 60mm, with-cable socket = 70mm																																											
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>U_{exc}</td></tr><tr><td>3</td><td>in</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	U _{exc}	3	in	4	Out	<table><tr><th>PIN</th><th>Assignment</th></tr><tr><td>A</td><td>U_{exc}</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	U _{exc}	B	Gnd	C	Out	<table><tr><th>Cable</th><th>Assignment</th></tr><tr><td>red</td><td>U_{exc}</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		Cable	Assignment	red	U _{exc}	white	Out	black	Gnd														
PIN	Assignment																																										
1	Gnd																																										
2	U _{exc}																																										
3	in																																										
4	Out																																										
PIN	Assignment																																										
A	U _{exc}																																										
B	Gnd																																										
C	Out																																										
Cable	Assignment																																										
red	U _{exc}																																										
white	Out																																										
black	Gnd																																										
																																											
Thread code: 01 • 10 mm • Ø 11 mm Order number: 010	Thread code: 02 • 10 mm • Ø 11 mm Order number: 012	Thread code: 03 • 10 mm • Ø 11 mm Order number: 013	Thread code: 04 • 10 mm • Ø 11 mm Order number: 014																																								
																																											
Thread code: 05 • 10 mm • Ø 11 mm Order number: 015	Thread code: 06 • 10 mm • Ø 11 mm Order number: 016	Thread code: 07 • 10 mm • Ø 11 mm Order number: 017	Thread code: 08 • 10 mm • Ø 11 mm Order number: 018																																								