



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053310141B011

NPN output (Low Side), NC, 0-10 Bar, G 1/4 – DIN EN ISO 1179-2, 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	10 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	G1/4
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	80 bar
Pressure max	40 bar

TEMPERATURE & MATERIALS DATA

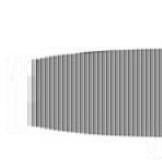
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	Ctrl
3	Ctrl
4	Ctrl

PS

PS1

• = 10 mm

• = 10 mm

Order number: 001

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

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PS

PS1

• = 10 mm

• = 10 mm

Order number: 002

ISO 15170-A1-A1

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PS

PS1

• = 10 mm

• = 10 mm

Order number: 003

AMP Superseal

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PS

PS1

• = 10 mm

• = 10 mm

Order number: 004

DEUTSCH DT04-4P

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PS

PS1

• = 10 mm

• = 10 mm

Order number: 005

DEUTSCH DT04-3P

Pin	Assignment
1	Ctrl
2	Ctrl
3	Ctrl

PS

PS1

• = 10 mm

• = 10 mm

Order number: 006

Cable connection

Cable	Assignment
1	Ctrl
2	Ctrl
3	Ctrl
4	Ctrl

PS

PS1

• = 10 mm

• = 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

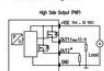
Thread code: 09

Thread code: 10

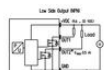


haz 221

Connection diagrams



Do not connect directly to each connector
NUT 2 only for 0630



Do not connect directly to each connector
NUT 2 only for 0630

Technical modifications and errors excepted.

DN EN 175301-803-A	M 12 - DN EN 61076-2-001 A	ISO 15715-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>Out</td></tr><tr><td>3</td><td>Out</td></tr><tr><td>4</td><td>Out</td></tr></table>	Pin	Assignment	1	U _{exc}	2	Out	3	Out	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>Out</td></tr><tr><td>4</td><td>Out</td></tr></table>	Pin	Assignment	1	U _{exc}	2	in	3	Out	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>Out</td></tr><tr><td>4</td><td>Out</td></tr></table>	Pin	Assignment	1	U _{exc}	2	in	3	Out	4	Out	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Out</td></tr><tr><td>2</td><td>Out</td></tr><tr><td>3</td><td>U_{exc}</td></tr></table>	Pin	Assignment	1	Out	2	Out	3	U _{exc}
Pin	Assignment																																								
1	U _{exc}																																								
2	Out																																								
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2	Out																																								
3	U _{exc}																																								
IP67	IP67	IP67, IP69K	IP67																																						
• 60 / 70 mm ²	• 54 mm	• 65 mm	• 71 mm																																						
• Ø 10 mm	• Ø 11 mm	• Ø 11 mm	• Ø 16 mm																																						
Order number: 000	Order number: 002	Order number: 004	Order number: 007																																						
*without cable (code 1) = 000m, with cable (code 1) = 20m																																									
DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection																																							
																																									
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IP67	IP67	IP67																																							
• 38 mm	• 38 mm	• 64 mm																																							
• Ø 11 mm	• Ø 11 mm	• 20 mm band width																																							
Order number: 008	Order number: 009	• cable length = 2 m																																							
		• Ø 11 mm																																							
Order number: 010	Order number: 011																																								
																																									
1/8" NPT DN EN 175301-803-A	1/4" NPT DN EN 175301-803-A	1/2" NPT DN EN 175301-803-A	3/4" NPT DN EN 175301-803-A																																						
Thread code: 01	Thread code: 02	Thread code: 03	Thread code: 04																																						
																																									
1" NPT DN EN 175301-803-A	1 1/4" NPT DN EN 175301-803-A	1 1/2" NPT DN EN 175301-803-A	2" NPT DN EN 175301-803-A																																						
Thread code: 05	Thread code: 06	Thread code: 07	Thread code: 08																																						