



SUCO 0531 ELECTRONIC PRESSURE SWITCH

053125209B011

PNP output (High Side), NC, 0-250 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	250 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	1/4 NPT
Function	Normally Closed (SPST)
Output	PNP
Burst pressure	2000 bar
Pressure max	1000 bar

TEMPERATURE & MATERIALS DATA

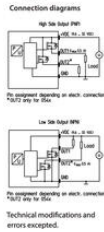
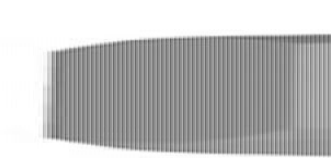
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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 / s ² ; 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	U _{CC}
2	U _{EE}
3	U _{CC}
4	U _{EE}

Order number: 001

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

Pin	Assignment
1	U _{CC}
2	U _{EE}
3	U _{CC}
4	U _{EE}

Order number: 002

ISO 15170-A1-A1

Pin	Assignment
1	U _{CC}
2	U _{EE}
3	U _{CC}
4	U _{EE}

Order number: 003

AMP Superseal

Pin	Assignment
1	U _{CC}
2	U _{EE}
3	U _{CC}
4	U _{EE}

Order number: 007

DEUTSCH DT04-4P

Pin	Assignment
1	U _{CC}
2	U _{EE}
3	U _{CC}
4	U _{EE}

Order number: 004

DEUTSCH DT04-3P

Pin	Assignment
1	U _{CC}
2	U _{EE}
3	U _{CC}

Order number: 005

Cable connection

Cable	Assignment
1	U _{CC}
2	U _{EE}
3	U _{CC}
4	U _{EE}

Order number: 006

Thread code 01

Order number: 008

Thread code 02

Order number: 009

Thread code 03

Order number: 010

Thread code 04

Order number: 011

Thread code 05

Order number: 012

Thread code 06

Order number: 013

Thread code 07

Order number: 014

Thread code 08

Order number: 015

Thread code 09

Order number: 016

Thread code 10

Order number: 017

Thread code 11

Order number: 018

Thread code 12

Order number: 019

Thread code 13

Order number: 020

Thread code 14

Order number: 021

Thread code 15

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Thread code 249

Order number: 256

Thread code 250

Order number: 257

Thread code 251

Order number: 258

Thread code 252

Order number: 259

Thread code 253

Order number: 260

Thread code 254

Order number: 261

Thread code 255

Order number: 262

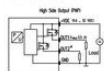
Thread code 256

Order number: 263</

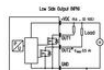


haz 221

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 61076-2-001 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>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	Out	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></table> IP67 • 71 mm • Ø 16 mm Order number: 007	PIN	Assignment	1	Out	2	Gnd	3	U _{exc}
PIN	Assignment																																								
1	U _{exc}																																								
2	Out																																								
3	Gnd																																								
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2	Gnd																																								
3	U _{exc}																																								
*without-cable (order) = 000mm, with-cable (order) = 2.00m																																									
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>1</td><td>U_{exc}</td></tr><tr><td>2</td><td>Gnd</td></tr><tr><td>3</td><td>Out</td></tr></table> IP67 • 38 mm • Ø 11 mm Order number: 009	PIN	Assignment	1	U _{exc}	2	Gnd	3	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																																								
1	U _{exc}																																								
2	Gnd																																								
3	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																																						