



## SUCO 0532 ELECTRONIC PRESSURE SWITCH

053225142B004  
NPN output (Low Side), NO, 0-25 Bar, M14x1.5 – DIN  
EN ISO 9974-2, Bayonet ISO 15170-A1-4.1

- 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
Process connection	M14x1.5
Function	Normally open (SPST)
Output	NPN
Burst pressure	200 bar
Pressure max	100 bar

#### TEMPERATURE & MATERIALS DATA

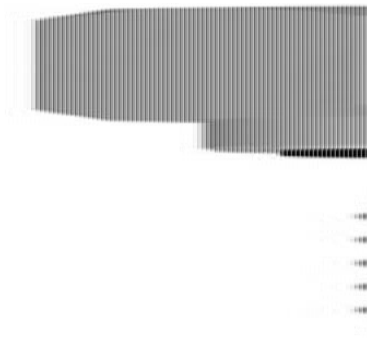
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

#### ADDITIONAL DATA

<b>Supply voltage dc max</b>	32 V DC
<b>Supply voltage dc min</b>	9.6 V DC
<b>Pressure rise</b>	≤ 5,000 bar/s
<b>Switching time</b>	< 2 ms
<b>Switching point adjustment range</b>	2 ... 100 % of the nominal pressure range Full Scale (FS), programmable at factory
<b>Weight</b>	80 g

## SAFETY & APPROVALS

<b>IP class</b>	IP67, IP6K9K
<b>Hysteresis</b>	2..99.8% of nominal pressure range (full scale), programmable at factory
<b>Shock resistance</b>	500m / s <sup>2</sup> ; 11 ms half sine wave; DIN EN 60068-2-27
<b>Vibration resistance</b>	20g: 4..2000 Hz sine wave, DIN EN 60068-2-6
<b>EMC</b>	EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007
<b>Accuracy</b>	±0.5 % of adjustment range (Full scale) at room temperature
<b>Long term stability</b>	±0.1 % of adjustment range (full scale) per year
<b>Mechanical life expectancy</b>	10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure
<b>Repeatability</b>	±0.1 % full scale



Item 221

### Connection diagrams







Pin assignment depending on each connection  
\*M12 5-pin for 5SA\*



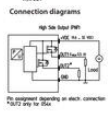
Pin assignment depending on each connection  
\*M12 5-pin for 5SA\*

Technical modifications and errors excepted.





DIN EN 175301-803-A	M 12 - DIN EN 61076-2-103-A	ISO 15170-A1-K1	AMP Superseal																																						
 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Out</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> <tr><td>5</td><td>Out</td></tr> </table> <p>IP67            • 60/7.76 mm<sup>2</sup>            • D 30 mm            Order number: 001  <small>* without cable length = 0.00m, with cable length = 1.50m</small></p>	1	Out	2	Out	3	Out	4	Out	5	Out	 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Line</td></tr> <tr><td>2</td><td>NC</td></tr> <tr><td>3</td><td>NC</td></tr> <tr><td>4</td><td>Out</td></tr> <tr><td>5</td><td>Out</td></tr> </table> <p>IP67            • 54 mm            • D 22 mm            Order number: 002  <small>* without cable length = 0.00m, with cable length = 1.50m</small></p>	1	Line	2	NC	3	NC	4	Out	5	Out	 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Line</td></tr> <tr><td>2</td><td>NC</td></tr> <tr><td>3</td><td>NC</td></tr> <tr><td>4</td><td>Out</td></tr> <tr><td>5</td><td>Out</td></tr> </table> <p>IP67            • 54 mm            • D 27 mm            Order number: 004</p>	1	Line	2	NC	3	NC	4	Out	5	Out	 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Out</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> <p>IP67            • 71 mm            • D 28 mm            Order number: 007</p>	1	Out	2	Out	3	Out	4	Out
1	Out																																								
2	Out																																								
3	Out																																								
4	Out																																								
5	Out																																								
1	Line																																								
2	NC																																								
3	NC																																								
4	Out																																								
5	Out																																								
1	Line																																								
2	NC																																								
3	NC																																								
4	Out																																								
5	Out																																								
1	Out																																								
2	Out																																								
3	Out																																								
4	Out																																								

DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection																						
 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Out</td></tr> <tr><td>2</td><td>Out</td></tr> <tr><td>3</td><td>NC</td></tr> <tr><td>4</td><td>Out</td></tr> </table> <p>IP67            • 38 mm            • D 22 mm            Order number: 006</p>	1	Out	2	Out	3	NC	4	Out	 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Line</td></tr> <tr><td>2</td><td>Out</td></tr> <tr><td>3</td><td>Out</td></tr> </table> <p>IP67            • 38 mm            • D 22 mm            Order number: 010</p>	1	Line	2	Out	3	Out	 <p>Cable Assignment</p> <table border="1"> <tr><td>1</td><td>Line</td></tr> <tr><td>2</td><td>white</td></tr> <tr><td>3</td><td>black</td></tr> <tr><td>4</td><td>Out</td></tr> </table> <p>IP67            • 68 mm            (a 20 mm hand held) cable length = 2 m            • D 22 mm            Order number: 011</p>	1	Line	2	white	3	black	4	Out
1	Out																							
2	Out																							
3	NC																							
4	Out																							
1	Line																							
2	Out																							
3	Out																							
1	Line																							
2	white																							
3	black																							
4	Out																							

Thread code 01	Thread code 02	Thread code 03	Thread code 04
 <p>175301-803-A            175301-803-A            175301-803-A            175301-803-A</p>	 <p>61076-2-103-A            61076-2-103-A            61076-2-103-A</p>	 <p>15170-A1-K1            15170-A1-K1            15170-A1-K1</p>	 <p>AMP Superseal            AMP Superseal            AMP Superseal</p>
Thread code 05	Thread code 06	Thread code 07	Thread code 08
 <p>DT04-4P            DT04-4P            DT04-4P</p>	 <p>DT04-3P            DT04-3P            DT04-3P</p>	 <p>DT04-3P            DT04-3P            DT04-3P</p>	 <p>DT04-4P            DT04-4P            DT04-4P</p>



Technical modifications and errors excepted.

DIN EN 175301-803-A	M 12 - DIN EN 61076-2-103-A	ISO 15170-A1-K1	AMP Superseal																																						
 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Out</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> <tr><td>5</td><td>Out</td></tr> </table> <p>IP67            • 60/7.76 mm<sup>2</sup>            • D 30 mm            Order number: 001  <small>* without cable length = 0.00m, with cable length = 1.50m</small></p>	1	Out	2	Out	3	Out	4	Out	5	Out	 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Line</td></tr> <tr><td>2</td><td>NC</td></tr> <tr><td>3</td><td>NC</td></tr> <tr><td>4</td><td>Out</td></tr> <tr><td>5</td><td>Out</td></tr> </table> <p>IP67            • 54 mm            • D 22 mm            Order number: 002  <small>* without cable length = 0.00m, with cable length = 1.50m</small></p>	1	Line	2	NC	3	NC	4	Out	5	Out	 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Line</td></tr> <tr><td>2</td><td>NC</td></tr> <tr><td>3</td><td>NC</td></tr> <tr><td>4</td><td>Out</td></tr> <tr><td>5</td><td>Out</td></tr> </table> <p>IP67            • 54 mm            • D 27 mm            Order number: 004</p>	1	Line	2	NC	3	NC	4	Out	5	Out	 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Out</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> <p>IP67            • 71 mm            • D 28 mm            Order number: 007</p>	1	Out	2	Out	3	Out	4	Out
1	Out																																								
2	Out																																								
3	Out																																								
4	Out																																								
5	Out																																								
1	Line																																								
2	NC																																								
3	NC																																								
4	Out																																								
5	Out																																								
1	Line																																								
2	NC																																								
3	NC																																								
4	Out																																								
5	Out																																								
1	Out																																								
2	Out																																								
3	Out																																								
4	Out																																								

DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection																						
 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Out</td></tr> <tr><td>2</td><td>Out</td></tr> <tr><td>3</td><td>NC</td></tr> <tr><td>4</td><td>Out</td></tr> </table> <p>IP67            • 38 mm            • D 22 mm            Order number: 006</p>	1	Out	2	Out	3	NC	4	Out	 <p>Pin Assignment</p> <table border="1"> <tr><td>1</td><td>Line</td></tr> <tr><td>2</td><td>Out</td></tr> <tr><td>3</td><td>Out</td></tr> </table> <p>IP67            • 38 mm            • D 22 mm            Order number: 010</p>	1	Line	2	Out	3	Out	 <p>Cable Assignment</p> <table border="1"> <tr><td>1</td><td>Line</td></tr> <tr><td>2</td><td>white</td></tr> <tr><td>3</td><td>black</td></tr> <tr><td>4</td><td>Out</td></tr> </table> <p>IP67            • 68 mm            (a 20 mm hand held) cable length = 2 m            • D 22 mm            Order number: 011</p>	1	Line	2	white	3	black	4	Out
1	Out																							
2	Out																							
3	NC																							
4	Out																							
1	Line																							
2	Out																							
3	Out																							
1	Line																							
2	white																							
3	black																							
4	Out																							

Thread code 01	Thread code 02	Thread code 03	Thread code 04
 <p>175301-803-A            175301-803-A            175301-803-A            175301-803-A</p>	 <p>61076-2-103-A            61076-2-103-A            61076-2-103-A</p>	 <p>15170-A1-K1            15170-A1-K1            15170-A1-K1</p>	 <p>AMP Superseal            AMP Superseal            AMP Superseal</p>
Thread code 05	Thread code 06	Thread code 07	Thread code 08
 <p>DT04-4P            DT04-4P            DT04-4P</p>	 <p>DT04-3P            DT04-3P            DT04-3P</p>	 <p>DT04-3P            DT04-3P            DT04-3P</p>	 <p>DT04-4P            DT04-4P            DT04-4P</p>