

SUCO 0531 ELECTRONIC PRESSURE SWITCH

053125242B002

PNP output (High Side), NC, 0-250 Bar, M14x1.5 – DIN
EN ISO 9974-2, M12 - DIN EN 61076-2-101-A



- One Switching Output
- Stainless Steel & Titanium Wetted Parts
- Silicon-On-Sapphire Technology
- Factory Set



PRODUCT DESCRIPTION

The SUCO 0541 is a compact, high-performance electronic pressure switch engineered with dual PNP outputs, both configured as normally closed. Encased in a durable hex-22 stainless-steel and titanium-wetted housing, it utilises Silicon-on-Sapphire (SoS) sensor technology to deliver precision and long-term stability, while offering high overpressure protection up to 4× the rated pressure. Available in pressure ranges spanning 0–10 bar to 0–600 bar, the 0541 switch supports switching currents up to 500 mA and responds rapidly under demanding conditions with pressure change rates reaching 5,000 bar/s. Factory-set switching points and hysteresis (0.2–99.8 % FS) ensure reliable performance, with a sealed welded design eliminating elastomer seals and meeting IP67 and industrial EMC standards.

The 0541 excels in harsh hydraulic and pneumatic environments, such as construction machinery, mobile hydraulic systems, off-road vehicles, and industrial automation, where compact size, durable construction, and reliable switching under dynamic pressures are essential. Its dual NC PNP outputs allow for redundant or staged switching logic in safety circuits or PLC-controlled systems, ideal for overpressure alarms, machine shutdowns, or interlock functions. The fast response time, high resistance to pressure peaks, and welded sensor design make it particularly suitable for vibration-heavy or wash-down settings. Furthermore, the availability of diverse process threads and electrical connectors ensures seamless integration into OEM systems requiring rugged, precise, and dependable pressure monitoring.

TECHNICAL DATA

GENERAL DATA

Adjustment range max	250 bar
Adjustment range min	0 bar
Electrical connection	M12x1
Process connection	M14x1.5
Function	Normally Closed
Output	PNP
Burst pressure	2000 bar
Pressure max	1000 bar

TEMPERATURE & MATERIALS DATA

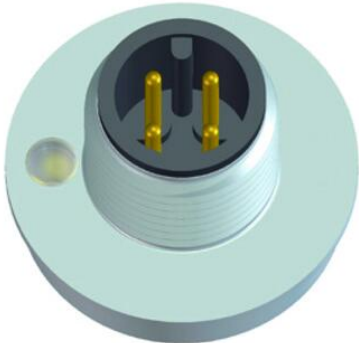
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	80 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



Connection diagrams



Technical modifications and errors excepted.

DIN EN 17530-803-A <table> <tr><th>Pin</th><th>Assignment</th></tr> <tr><td>1</td><td>Ch+</td></tr> <tr><td>2</td><td>Ch-</td></tr> <tr><td>3</td><td>Ch0</td></tr> <tr><td>4</td><td>Ch1</td></tr> <tr><td>5</td><td>Ch2</td></tr> <tr><td>6</td><td>Ch3</td></tr> <tr><td>7</td><td>Ch4</td></tr> <tr><td>8</td><td>Ch5</td></tr> <tr><td>9</td><td>Ch6</td></tr> <tr><td>10</td><td>Ch7</td></tr> <tr><td>11</td><td>Ch8</td></tr> <tr><td>12</td><td>Ch9</td></tr> <tr><td>13</td><td>Ch10</td></tr> <tr><td>14</td><td>Ch11</td></tr> <tr><td>15</td><td>Ch12</td></tr> <tr><td>16</td><td>Ch13</td></tr> <tr><td>17</td><td>Ch14</td></tr> <tr><td>18</td><td>Ch15</td></tr> <tr><td>19</td><td>Ch16</td></tr> <tr><td>20</td><td>Ch17</td></tr> <tr><td>21</td><td>Ch18</td></tr> <tr><td>22</td><td>Ch19</td></tr> <tr><td>23</td><td>Ch20</td></tr> <tr><td>24</td><td>Ch21</td></tr> <tr><td>25</td><td>Ch22</td></tr> <tr><td>26</td><td>Ch23</td></tr> <tr><td>27</td><td>Ch24</td></tr> <tr><td>28</td><td>Ch25</td></tr> 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21	Ch18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
22	Ch19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
23	Ch20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
24	Ch21																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
25	Ch22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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27	Ch24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
28	Ch25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
29	Ch26																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
30	Ch27																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
31	Ch28																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
32	Ch29																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
33	Ch30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
34	Ch31																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
35	Ch32																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
36	Ch33																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
37	Ch34																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
38	Ch35																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
39	Ch36																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
40	Ch37																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
41	Ch38																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
42	Ch39																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
43	Ch40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
44	Ch41																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
45	Ch42																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
46	Ch43																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
47	Ch44																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
48	Ch45																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
49	Ch46																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
50	Ch47																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
51	Ch48																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
52	Ch49																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
53	Ch50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		