

SUCO 0532 ELECTRONIC PRESSURE SWITCH

053210109B004
NPN output (Low Side), NO, 0-10 Bar, NPT 1/4, Bayonet
ISO 15170-A1-4.1



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



PRODUCT DESCRIPTION

The SUCO 0532 electronic pressure switch is a high-performance, factory-set device featuring a compact hex-22 stainless steel housing with titanium-wetted parts and welded design, eliminating elastomer seals. It utilises advanced Silicon-on-Sapphire (SoS) sensor technology, ensuring exceptional accuracy ($\pm 0.5\%$ FS) and long-term stability ($\pm 0.1\%$ FS/year), and delivers reliable overpressure protection up to $4\times$ the rated range. Available with a single NPN (low-side) normally-open transistor output capable of handling up to 0.5 A, it supports pressure ranges from 0–10 bar up to 0–600 bar. The 0532 offers a wide choice of process ports and electrical connections, and includes factory-set switching point and hysteresis, along with a fast response time of under 4 ms.

The 0532 is ideal for high-integrity industrial and mobile hydraulic applications, such as in construction equipment, off-road vehicles, and pneumatic systems, where compactness, precision, and reliability are crucial. Its robust SoS sensor and welded housing offer high resilience to vibration, transient pressures, and wash-down conditions, making it suitable for severe environmental exposure. The NPN output with normally open configuration and field-programmed hysteresis allows seamless integration into PLC and relay-controlled systems for safety interlocks, pressure monitoring, and automated shutdown scenarios. The switch's fast response and low moving-part design reduce wear and improve lifespan, making the SUCO 0532 a dependable solution in OEM systems requiring compact, rugged, and high-precision pressure switching.

TECHNICAL DATA

GENERAL DATA

Adjustment range max	10 bar
Adjustment range min	0 bar
Process connection	1/4 NPT
Function	Normally open
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	80 g

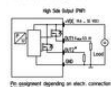
SAFETY & APPROVALS

IP class	IP67, IP6K9K
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

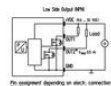




Connection diagrams



*0072 only for 0546.



Workload was differentiated as usual

Technical modifications and errors excepted.

<p>EN DIN 17505-803-A</p> <p>Pin Assignment</p> <p>1 Unv 2 Grd 3 Unv 4 Grd 5 Unv 6 Grd 7 Unv 8 Grd 9 Unv 10 Grd 11 Unv 12 Grd 13 Unv 14 Grd 15 Unv 16 Grd 17 Unv 18 Grd 19 Unv 20 Grd 21 Unv 22 Grd 23 Unv 24 Grd 25 Unv 26 Grd 27 Unv 28 Grd 29 Unv 30 Grd 31 Unv 32 Grd 33 Unv 34 Grd 35 Unv 36 Grd 37 Unv 38 Grd 39 Unv 40 Grd 41 Unv 42 Grd 43 Unv 44 Grd 45 Unv 46 Grd 47 Unv 48 Grd 49 Unv 50 Grd 51 Unv 52 Grd 53 Unv 54 Grd 55 Unv 56 Grd 57 Unv 58 Grd 59 Unv 60 Grd 61 Unv 62 Grd 63 Unv 64 Grd 65 Unv 66 Grd 67 Unv 68 Grd 69 Unv 70 Grd 71 Unv 72 Grd 73 Unv 74 Grd 75 Unv 76 Grd 77 Unv 78 Grd 79 Unv 80 Grd 81 Unv 82 Grd 83 Unv 84 Grd 85 Unv 86 Grd 87 Unv 88 Grd 89 Unv 90 Grd 91 Unv 92 Grd 93 Unv 94 Grd 95 Unv 96 Grd 97 Unv 98 Grd 99 Unv 100 Grd</p> <p>ISO</p> <p>• 60° / 70 mm² • 10-15 mm Order number: 001</p> <p>*without single cable = 10 mm, with single cable = 15 mm</p>	<p>M 12 - DIN EN 45326-2-018-A</p> <p>Pin Assignment</p> <p>1 Unv 2 Unv 3 Grd 4 Grd 5 Unv 6 Grd 7 Unv 8 Grd 9 Unv 10 Grd 11 Unv 12 Grd 13 Unv 14 Grd 15 Unv 16 Grd 17 Unv 18 Grd 19 Unv 20 Grd 21 Unv 22 Grd 23 Unv 24 Grd 25 Unv 26 Grd 27 Unv 28 Grd 29 Unv 30 Grd 31 Unv 32 Grd 33 Unv 34 Grd 35 Unv 36 Grd 37 Unv 38 Grd 39 Unv 40 Grd 41 Unv 42 Grd 43 Unv 44 Grd 45 Unv 46 Grd 47 Unv 48 Grd 49 Unv 50 Grd 51 Unv 52 Grd 53 Unv 54 Grd 55 Unv 56 Grd 57 Unv 58 Grd 59 Unv 60 Grd 61 Unv 62 Grd 63 Unv 64 Grd 65 Unv 66 Grd 67 Unv 68 Grd 69 Unv 70 Grd 71 Unv 72 Grd 73 Unv 74 Grd 75 Unv 76 Grd 77 Unv 78 Grd 79 Unv 80 Grd 81 Unv 82 Grd 83 Unv 84 Grd 85 Unv 86 Grd 87 Unv 88 Grd 89 Unv 90 Grd 91 Unv 92 Grd 93 Unv 94 Grd 95 Unv 96 Grd 97 Unv 98 Grd 99 Unv 100 Grd</p> <p>ISO</p> <p>• 54 mm • 10-15 mm Order number: 002</p>	<p>ISO 15110-A1-1</p> <p>Pin Assignment</p> <p>1 Unv 2 Unv 3 Grd 4 Grd 5 Unv 6 Grd 7 Unv 8 Grd 9 Unv 10 Grd 11 Unv 12 Grd 13 Unv 14 Grd 15 Unv 16 Grd 17 Unv 18 Grd 19 Unv 20 Grd 21 Unv 22 Grd 23 Unv 24 Grd 25 Unv 26 Grd 27 Unv 28 Grd 29 Unv 30 Grd 31 Unv 32 Grd 33 Unv 34 Grd 35 Unv 36 Grd 37 Unv 38 Grd 39 Unv 40 Grd 41 Unv 42 Grd 43 Unv 44 Grd 45 Unv 46 Grd 47 Unv 48 Grd 49 Unv 50 Grd 51 Unv 52 Grd 53 Unv 54 Grd 55 Unv 56 Grd 57 Unv 58 Grd 59 Unv 60 Grd 61 Unv 62 Grd 63 Unv 64 Grd 65 Unv 66 Grd 67 Unv 68 Grd 69 Unv 70 Grd 71 Unv 72 Grd 73 Unv 74 Grd 75 Unv 76 Grd 77 Unv 78 Grd 79 Unv 80 Grd 81 Unv 82 Grd 83 Unv 84 Grd 85 Unv 86 Grd 87 Unv 88 Grd 89 Unv 90 Grd 91 Unv 92 Grd 93 Unv 94 Grd 95 Unv 96 Grd 97 Unv 98 Grd 99 Unv 100 Grd</p> <p>ISO 15110-A1-1</p> <p>• 65 mm max • 10-15 mm Order number: 008</p>	<p>AMP Superseal</p> <p>Pin Assignment</p> <p>1 Unv 2 Unv 3 Grd 4 Unv 5 Grd 6 Unv 7 Grd 8 Unv 9 Grd 10 Unv 11 Grd 12 Unv 13 Grd 14 Unv 15 Grd 16 Unv 17 Grd 18 Unv 19 Grd 20 Unv 21 Grd 22 Unv 23 Grd 24 Unv 25 Grd 26 Unv 27 Grd 28 Unv 29 Grd 30 Unv 31 Grd 32 Unv 33 Grd 34 Unv 35 Grd 36 Unv 37 Grd 38 Unv 3</p>
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