

SUCO 0532 ELECTRONIC PRESSURE SWITCH

053210121B013

NPN output (Low Side), NO, 0-10 Bar, 9/16 – 18 UNF,
DIN EN 175301-803-A



- 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
Electrical connection	DIN EN 175301-803-A
Process connection	9/16-18UNF
Function	Normally open
Output	NPN
Burst pressure	80 bar
Pressure max	40 bar

TEMPERATURE & MATERIALS DATA

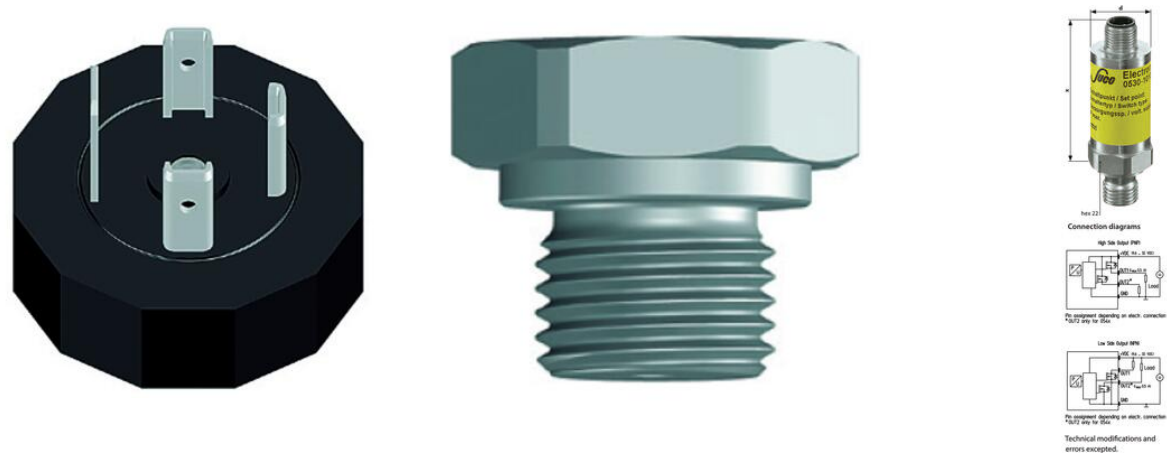
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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	110 g

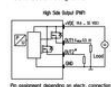
SAFETY & APPROVALS

IP class	IP65
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

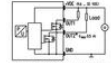


[illegible]

Connection diagrams



*OUT2 only for 054x



^a0.02 wt % in toluene.

Technical modifications and errors excepted.

<p>EN DIN 17301-803-A</p> <p>Pin Assignment</p> <ul style="list-style-type: none"> 1 Gnd 2 Gnd 3 Gnd 4 Gnd 5 Gnd 6 Gnd 7 Gnd 8 Gnd 9 Gnd 10 Gnd 11 Gnd 12 Gnd 13 Gnd 14 Gnd 15 Gnd 16 Gnd 17 Gnd 18 Gnd 19 Gnd 20 Gnd 21 Gnd 22 Gnd 23 Gnd 24 Gnd 25 Gnd 26 Gnd 27 Gnd 28 Gnd 29 Gnd 30 Gnd 31 Gnd 32 Gnd 33 Gnd 34 Gnd 35 Gnd 36 Gnd 37 Gnd 38 Gnd 39 Gnd 40 Gnd 41 Gnd 42 Gnd 43 Gnd 44 Gnd 45 Gnd 46 Gnd 47 Gnd 48 Gnd 49 Gnd 50 Gnd 51 Gnd 52 Gnd 53 Gnd 54 Gnd 55 Gnd 56 Gnd 57 Gnd 58 Gnd 59 Gnd 60 Gnd 61 Gnd 62 Gnd 63 Gnd 64 Gnd 65 Gnd 66 Gnd 67 Gnd 68 Gnd 69 Gnd 70 Gnd 71 Gnd 72 Gnd 73 Gnd 74 Gnd 75 Gnd 76 Gnd 77 Gnd 78 Gnd 79 Gnd 80 Gnd 81 Gnd 82 Gnd 83 Gnd 84 Gnd 85 Gnd 86 Gnd 87 Gnd 88 Gnd 89 Gnd 90 Gnd 91 Gnd 92 Gnd 93 Gnd 94 Gnd 95 Gnd 96 Gnd 97 Gnd 98 Gnd 99 Gnd 100 Gnd <p>IP67</p> <ul style="list-style-type: none"> • 60° / 7 mm • 10° / 10 mm <p>Order number: 001</p>	<p>M 12 - DIN EN 41026-2-01-A</p> <p>Pin Assignment</p> <ul style="list-style-type: none"> 1 Gnd 2 Gnd 3 Gnd 4 Gnd 5 Gnd 6 Gnd 7 Gnd 8 Gnd 9 Gnd 10 Gnd 11 Gnd 12 Gnd 13 Gnd 14 Gnd 15 Gnd 16 Gnd 17 Gnd 18 Gnd 19 Gnd 20 Gnd 21 Gnd 22 Gnd 23 Gnd 24 Gnd 25 Gnd 26 Gnd 27 Gnd 28 Gnd 29 Gnd 30 Gnd 31 Gnd 32 Gnd 33 Gnd 34 Gnd 35 Gnd 36 Gnd 37 Gnd 38 Gnd 39 Gnd 40 Gnd 41 Gnd 42 Gnd 43 Gnd 44 Gnd 45 Gnd 46 Gnd 47 Gnd 48 Gnd 49 Gnd 50 Gnd 51 Gnd 52 Gnd 53 Gnd 54 Gnd 55 Gnd 56 Gnd 57 Gnd 58 Gnd 59 Gnd 60 Gnd 61 Gnd 62 Gnd 63 Gnd 64 Gnd 65 Gnd 66 Gnd 67 Gnd 68 Gnd 69 Gnd 70 Gnd 71 Gnd 72 Gnd 73 Gnd 74 Gnd 75 Gnd 76 Gnd 77 Gnd 78 Gnd 79 Gnd 80 Gnd 81 Gnd 82 Gnd 83 Gnd 84 Gnd 85 Gnd 86 Gnd 87 Gnd 88 Gnd 89 Gnd 90 Gnd 91 Gnd 92 Gnd 93 Gnd 94 Gnd 95 Gnd 96 Gnd 97 Gnd 98 Gnd 99 Gnd 100 Gnd <p>IP67</p> <ul style="list-style-type: none"> • 60° / 7 mm • 10° / 10 mm <p>Order number: 002</p>	<p>ISO 15710-A1-E-1</p> <p>Pin Assignment</p> <ul style="list-style-type: none"> 1 Gnd 2 Gnd 3 Gnd 4 Gnd 5 Gnd 6 Gnd 7 Gnd 8 Gnd 9 Gnd 10 Gnd 11 Gnd 12 Gnd 13 Gnd 14 Gnd 15 Gnd 16 Gnd 17 Gnd 18 Gnd 19 Gnd 20 Gnd 21 Gnd 22 Gnd 23 Gnd 24 Gnd 25 Gnd 26 Gnd 27 Gnd 28 Gnd 29 Gnd 30 Gnd 31 Gnd 32 Gnd 33 Gnd 34 Gnd 35 Gnd 36 Gnd 37 Gnd 38 Gnd 39 Gnd 40 Gnd 41 Gnd 42 Gnd 43 Gnd 44 Gnd 45 Gnd 46 Gnd 47 Gnd 48 Gnd 49 Gnd 50 Gnd 51 Gnd 52 Gnd 53 Gnd 54 Gnd
---	---	--