

SUCO 0532 ELECTRONIC PRESSURE SWITCH

053210242B004

NPN output (Low Side), NO, 0-100 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

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	100 bar
Adjustment range min	0 bar
Process connection	M14x1.5
Function	Normally open
Output	NPN
Burst pressure	800 bar
Pressure max	400 bar

TEMPERATURE & MATERIALS DATA

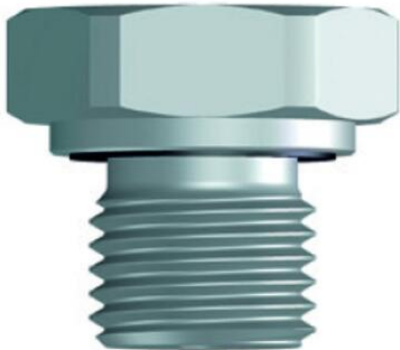
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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



*OUT2 only for 154x



Pin assignment depending on clock, can

Technical modifications and errors excepted.

ON EN 17530S-803-A Pin Assignment 1: GND 2: L 3: N 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 IP67 • 62 x 76 mm • 12 (3.94") mm Order number: 001 <small>* without copper socket = 001-01, with copper socket = 001-02</small>	M 12 - ON EN 41536-2-101-A Pin Assignment 1: L 2: N 3: GND 4: L 5: N 6: GND 7: L 8: N 9: GND 10: L 11: N 12: GND 13: L 14: N 15: GND 16: L 17: N 18: GND 19: L 20: N 21: GND 22: L 23: N 24: GND 25: L 26: N 27: GND 28: L 29: N 30: GND 31: L 32: N 33: GND 34: L 35: N 36: GND 37: L 38: N 39: GND 40: L 41: N 42: GND 43: L 44: N 45: GND 46: L 47: N 48: GND 49: L 50: N 51: GND 52: L 53: N 54: GND 55: L 56: N 57: GND 58: L 59: N 60: GND 61: L 62: N 63: GND 64: L 65: N 66: GND 67: L 68: N 69: GND 70: L 71: N 72: GND 73: L 74: N 75: GND 76: L 77: N 78: GND 79: L 80: N 81: GND 82: L 83: N 84: GND 85: L 86: N 87: GND 88: L 89: N 90: GND 91: L 92: N 93: GND 94: L 95: N 96: GND 97: L 98: N 99: GND 100: L IP67 • 54 mm • 12 (3.94") mm Order number: 002	ISO 15170-A1-A-1 Pin Assignment 1: L 2: N 3: GND 4: L 5: N 6: GND 7: L 8: N 9: GND 10: L 11: N 12: GND 13: L 14: N 15: GND 16: L 17: N 18: GND 19: L 20: N 21: GND 22: L 23: N 24: GND 25: L 26: N 27: GND 28: L 29: N 30: GND 31: L 32: N 33: GND 34: L 35: N 36: GND 37: L 38: N 39: GND 40: L 41: N 42: GND 43: L 44: N 45: GND 46: L 47: N 48: GND 49: L 50: N 51: GND 52: L 53: N 54: GND 55: L 56: N 57: GND 58: L 59: N 60: GND 61: L 62: N 63: GND 64: L 65: N 66: GND 67: L 68: N 69: GND 70: L 71: N 72: GND 73: L 74: N 75: GND 76: L 77: N 78: GND 79: L 80: N 81: GND 82: L 83: N 84: GND 85: L 86: N 87: GND 88: L 89: N 90: GND 91: L 92: N 93: GND 94: L 95: N 96: GND 97: L 98: N 99: GND 100: L IP67 • 65 mm mm • 12 (3.94") mm Order number: 004	AMP Superserial
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