

SUCO 0532 ELECTRONIC PRESSURE SWITCH

053210242B007

NPN output (Low Side), NO, 0-100 Bar, M14x1.5 – DIN
EN ISO 9974-2, AMP Superseal 1.5



- 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
Electrical connection	AMP Superseal
Process connection	M14x1.5
Function	Normally open
Output	NPN
Burst pressure	800 bar
Pressure max	400 bar

TEMPERATURE & MATERIALS DATA

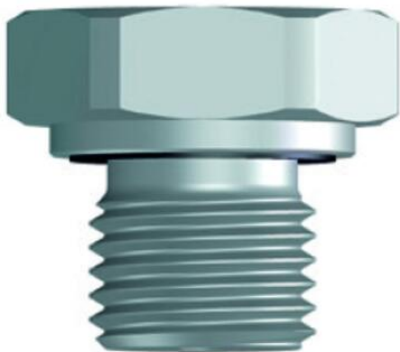
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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
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.

<p>EN 17530-803-A</p> <p>Pos. Assignment</p> <ol style="list-style-type: none"> 1 Gnd 2 L 3 N 4 Gnd <p>IP67</p> <ul style="list-style-type: none"> • 65 / 70 mm • 12 / 15 mm <p>Order number: 001</p> <p>* without copper socket = 01-00, with copper socket = 10-00</p>	<p>M 12 / EN 45136-2 011 A</p> <p>Pos. Assignment</p> <ol style="list-style-type: none"> 1 Gnd 2 L 3 N 4 Gnd <p>IP67</p> <ul style="list-style-type: none"> • 12 / 12 mm <p>Order number: 002</p>	<p>ISO 15170-A1-4-1</p> <p>Pos. Assignment</p> <ol style="list-style-type: none"> 1 L 2 N 3 Gnd 4 Gnd <p>IP67</p> <ul style="list-style-type: none"> • 65 mm max. • 12 / 17 mm <p>Order number: 004</p>	<p>AMP Supersal</p> <p>Pos. Assignment</p> <ol style="list-style-type: none"> 1 L 2 Gnd 3 L 4 L <p>IP67</p> <ul style="list-style-type: none"> • 71 mm • 15 mm <p>Order number: 007</p>
<p>DEUTSCH 2704-4F</p> <p>Pos. Assignment</p> <ol style="list-style-type: none"> 1 Gnd 2 L 3 N 4 Gnd <p>IP67</p> <ul style="list-style-type: none"> • 18 mm • 23 mm <p>Order number: 008</p>	<p>DEUTSCH 0704-3P</p> <p>Pos. Assignment</p> <ol style="list-style-type: none"> 1 L 2 L 3 N <p>IP67</p> <ul style="list-style-type: none"> • 12 / 11 mm <p>Order number: 010</p>	<p>Cable connection</p> <p>Pos. Assignment</p> <ol style="list-style-type: none"> 1 L 2 L 3 Gnd 4 Gnd <p>IP67</p> <ul style="list-style-type: none"> • 65 mm • 12 mm (max) cable • cable length = 1.7 m • 12 / 12 mm <p>Order number: 011</p>	
<p>EN 1518-0123</p> <p>Thread code: 41</p>	<p>EN 1518-0124</p> <p>Thread code: 03</p>	<p>EN 1518-0125</p> <p>Thread code: 04</p>	<p>EN 1518-0126</p> <p>Thread code: 09</p>
<p>EN 1518-0127</p> <p>Thread code: 20</p>	<p>EN 1518-0128</p> <p>Thread code: 22</p>	<p>EN 1518-0129</p> <p>Thread code: 21</p>	<p>EN 1518-0130</p> <p>Thread code: 23</p>