



SUCO 0532 ELECTRONIC PRESSURE SWITCH

053225121B004

NPN output (Low Side), NO, 0-25 Bar, 9/16 – 18 UNF, 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 (± 0.5 % FS) and long-term stability (± 0.1 % FS/year), and delivers reliable overpressure protection up to 4× 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	25 bar
Adjustment range min	0 bar
Process connection	9/16-18UNF
Function	Normally open
Output	NPN
Burst pressure	200 bar
Pressure max	100 bar

TEMPERATURE & MATERIALS DATA

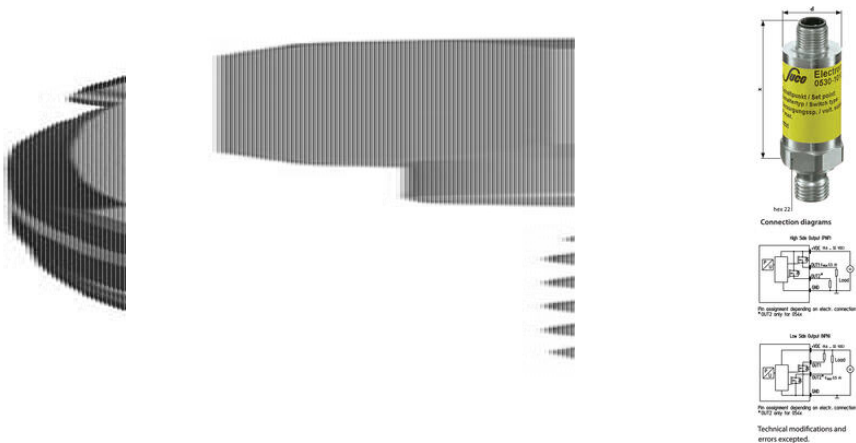
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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 / s ² ; 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



Pin	Assignment
1	Ch+
2	Ch-
3	GNd
4	GNd

$\Phi = 60 / 7.76 \text{ mm}^2$
 $\Phi = 10 \text{ mm}$
Order number: 001

Pin	Assignment
1	Ch+
2	Ch-
3	GNd
4	GNd

$\Phi = 54 \text{ mm}$
 $\Phi = 22 \text{ mm}$
Order number: 002

Pin	Assignment
1	Ch+
2	Ch-
3	GNd
4	GNd

$\Phi = 65 \text{ mm}$
 $\Phi = 27 \text{ mm}$
Order number: 004

Pin	Assignment
1	Ch+
2	Ch-
3	GNd
4	GNd

$\Phi = 71 \text{ mm}$
 $\Phi = 28 \text{ mm}$
Order number: 007

Pin	Assignment
1	GNd
2	Ch+
3	Ch-
4	GNd

$\Phi = 58 \text{ mm}$
 $\Phi = 22 \text{ mm}$
Order number: 008

Pin	Assignment
1	Ch+
2	Ch-
3	GNd

$\Phi = 58 \text{ mm}$
 $\Phi = 22 \text{ mm}$
Order number: 010

Cable	Assignment
red	Ch+
white	Ch-
black	GNd

$\Phi = 68 \text{ mm}$
(ø 25 mm band adapt)
cable length = 2 m
 $\Phi = 22 \text{ mm}$
Order number: 011

Thread code: 41

Thread code: 03

Thread code: 04

Thread code: 05

Thread code: 06

Thread code: 07

Thread code: 21

Thread code: 42

$\Phi = 60 / 7.76 \text{ mm}^2$
 $\Phi = 10 \text{ mm}$
Order number: 001

Connection diagrams

High Voltage (HV) and Low Voltage (LV) connection diagrams showing pin assignments and cable lengths.

No pinning diagram in each connector
 1000 pins for 1000

Technical modifications and errors excepted.

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