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SUCO 0532 ELECTRONIC PRESSURE SWITCH

053225209B004
NPN output (Low Side), NO, 0-250 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 (±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	250 bar
Adjustment range min	0 bar
Process connection	1/4 NPT
Function	Normally open
Output	NPN
Burst pressure	2000 bar
Pressure max	1000 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

DIN EN 175301-803-A

Pin	Assignment
1	Uv+
2	Out
3	Gnd
PE	⏚

IP65

x ~ 60 / 76 mm*

ø ~ Ø 30 mm

Order number: 001

*without coupler socket x ~ 60 mm, with coupler socket x ~ 75 mm

M 12 – DIN EN 61076-2-101-A

Pin	Assignment
1	Uv+
2	nc
3	Gnd
4	Out

IP67

x ~ 54 mm

ø ~ Ø 22 mm

Order number: 002

ISO 15170-A1-4.1

Pin	Assignment
1	Uv+
2	nc
3	Gnd
4	Out

IP67, IP69K

x ~ 65 mm mm

ø ~ Ø 27 mm

Order number: 004

AMP Superseal

Pin	Assignment
1	Out
2	Gnd
3	Uv+

IP67

x ~ 71 mm

ø ~ Ø 26 mm

Order number: 007

DEUTSCH DT04-4P

Pin	Assignment
1	Gnd
2	Uv+
3	nc
4	Out

IP67, IP69K

x ~ 74 mm

ø ~ Ø 23 mm

Order number: 008

DEUTSCH DT04-3P

Pin	Assignment
A	Uv+
B	Gnd
C	Out

IP67, IP69K

x ~ 78 mm

ø ~ Ø 23 mm

Order number: 010

Cable connection

Cable	Assignment
red	Uv+
white	Out
black	Gnd

IP67

x ~ 64 mm
(+ 20 mm bend relief)
cable length ~ 2 m

ø ~ Ø 22 mm

Order number: 011

Thread code: 41

Thread code: 03

Thread code: 04

Thread code: 09

Thread code: 30

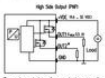
Thread code: 20

Thread code: 21

Thread code: 42

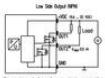
Connection diagrams

High Side Output (PNP)



Pin assignment depending on elect. connection
*OUT2 only for 05xx

Low Side Output (NPN)



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Technical modifications and errors excepted.

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