

SUCO 0532 ELECTRONIC PRESSURE SWITCH

053225130B010

NPN output (Low Side), NO, 0-25 Bar, M10x1 zyl. DIN 3852-A, Deutsch DT04-3P



- 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	25 bar
Adjustment range min	0 bar
Electrical connection	Deutsch DT04-3P
Process connection	M10x1
Function	Normally open
Output	NPN
Burst pressure	200 bar
Pressure max	100 bar

TEMPERATURE & MATERIALS DATA

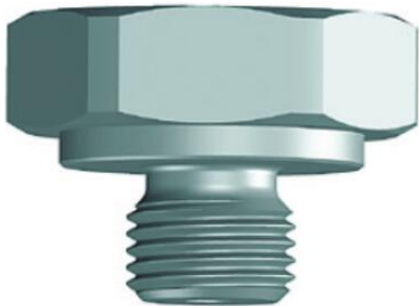
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

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 / 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



Pin	Assignment
1	Open
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 001
 Technical modification: - 010

Pin	Assignment
1	Open
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 002
 with upper code: - 100

Pin	Assignment
1	Open
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 003

Pin	Assignment
1	Open
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 004

Pin	Assignment
1	Out
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 005

Pin	Assignment
1	Out
2	Out
3	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 006

Cable	Assignment
1	Out
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 007

Thread code: 41

Thread code: 43

Thread code: 44

Thread code: 49

Thread code: 50

Thread code: 55

Thread code: 61

Thread code: 62

Connection diagrams

Up to 100 V AC

Technical modifications and errors excepted.

Pin	Assignment
1	Open
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 001
 Technical modification: - 010

Pin	Assignment
1	Open
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 002
 with upper code: - 100

Pin	Assignment
1	Open
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 003

Pin	Assignment
1	Open
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 004

Pin	Assignment
1	Out
2	Out
3	Out
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PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 005

Pin	Assignment
1	Out
2	Out
3	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
 Order number: 006

Cable	Assignment
1	Out
2	Out
3	Out
4	Out

PNC
 • - 60.7 ± 0.1 mm
 • - Ø 10 mm
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Thread code: 41

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Thread code: 44

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