



SUCO 0530 ELECTRONIC PRESSURE SWITCH

053025130B004

PNP output (High Side), NO, 0-25 Bar, M10x1 zyl. DIN 3852-A, Bayonet ISO 15170-A1-4.1

- One switching output
- Stainless steel & titanium wetted parts
- Silicon-on-sapphire technology
- Factory set



PRODUCT DESCRIPTION

The SUCO 0530 is a high-performance electronic pressure switch featuring a rugged hex 22 stainless steel housing and titanium-wetted parts, designed for demanding environments. It uses a precision Silicon-on-Sapphire (SOS) sensing element for exceptional accuracy, low temperature drift, and long-term stability. This model provides a single PNP output with a “normally open” function, factory-set switching point and hysteresis, and high over-pressure protection to ensure safety under unexpected pressure spikes. It supports multiple pressure ranges up to 1,650 bar, thread options including G $\frac{1}{4}$, NPT, UNF, M10/M14, and electrical connector choices like Deutsch DT04, AMP Superseal, M12, bayonet, or pre-fitted cable, all rated to IP67/IP6K9K for water and dust resistance.

Built for rugged industrial and mobile-hydraulic use, the 0530 excels in situations requiring reliable pressure monitoring under harsh conditions. Typical applications include hydraulic systems in construction machinery, mobile equipment, pneumatic systems, and even high-pressure applications in test benches or process lines. The SOS sensor ensures rapid detection and long-term measurement consistency, while the all-welded stainless steel/titanium design resists corrosion and eliminates elastomer seals, ideal for harsh media and high change-rate pressures. With robust connector choices and factory-set parameters, it offers plug-and-play integration, minimal setup, and reliable performance, making it a trusted choice for sectors like heavy machinery, off-road vehicles, marine hydraulics, and industrial automation.

TECHNICAL DATA

GENERAL DATA

Adjustment range max	25 bar
Adjustment range min	0 bar
Process connection	M10x1
Function	Normally open
Output	PNP
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

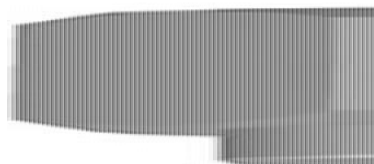
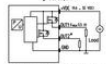




Fig. 221

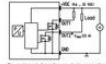
Connection diagrams

Up to 100 V AC



For permanent operating on each connector 100 V AC for 10 s

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Technical modifications and errors excepted.

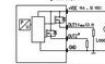
DIN EN 175301-803-A	M 12 - DIN EN 61076-2-101 A	ISO 15176-A1-4-1	AMP Superseal																																								
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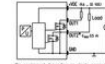
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Pin Assignment 1 Ch+ 2 Ch- 3 Ch+ 4 Ch- IP67 • 60 / 70 mm ² • 12.50 mm Order number: 001	Pin Assignment 1 Line 2 nc 3 Ch+ 4 Ch- IP67 • 54 mm • 12.50 mm Order number: 002	Pin Assignment 1 Line 2 nc 3 Ch+ 4 Ch- IP67 (max) • 65 mm (max) • 12.50 mm Order number: 004	Pin Assignment 1 Line 2 nc 3 Ch+ 4 Ch- IP67 • 73 mm • 12.50 mm Order number: 007
* without copper cable = 010m, with copper cable = 15 mm			
DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection	
Pin Assignment 1 Ch+ 2 Ch- 3 Ch+ 4 Ch- IP67 (max) • 38 mm • 12.50 mm Order number: 008	Pin Assignment 1 Line 2 Ch+ 3 Ch- IP67 (max) • 38 mm • 12.50 mm Order number: 009	Cable Assignment 1 Line 2 Ch+ 3 Ch- 4 Black IP67 • 68 mm (20 mm band width) • 12.50 mm Order number: 011	
Thread code 41 1/2 inch DIN 9136 A1 IP67	Thread code 03 1/2 inch DIN 9136 A1 IP67	Thread code 04 1/2 inch DIN 9136 A1 IP67	Thread code 09 1/2 inch DIN 9136 A1 IP67
Thread code 05 3/8 inch DIN 9136 A1 IP67	Thread code 05 3/8 inch DIN 9136 A1 IP67	Thread code 21 3/8 inch DIN 9136 A1 IP67	Thread code 42 3/8 inch DIN 9136 A1 IP67