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SUCO 0510/0511 NPT1/4 ELECTRONIC PRESSURE SWITCH



0511161097007 NC, 0 - 16 Bar, NPT 1/4, TPE, AMP Superseal 1.5

- Single Switch Point
- Small & Compact
- Ceramic Sensor
- Stainless Steel Housing

PRODUCT DESCRIPTION

The SUCO 0510/0511 series combines a compact stainless-steel (AISI 303) hex-24 housing with a high-performance ceramic thick-film sensor, offering exceptionally reliable, switchable pressure monitoring. Users can adjust the switching point and hysteresis on-site, covering ranges from just 0-2 bar up to 0-600 bar, with dual output configurations (NO or NC, PNP 500 mA capability), and visual LED status indication for easy diagnostics. They're designed to withstand overpressure of up to 2× rated pressure and meet IP67 protection when paired with sealed connectors. Installation versatility is further enhanced by an array of electrical (AMP Superseal, Deutsch, DIN, M12, cable) and process (1/4-inch NPT, BSP, UNF, metric) connection options. This series is ideal for OEM and industrial systems that require compact, field-adjustable pressure monitoring. It excels in hydraulic and pneumatic applications—such as construction equipment, material handling, and mobile machinery—where ruggedness and precision under harsh conditions are essential. The ceramic sensor resists corrosion and is unaffected by contact wear, making it suitable for systems with vibration, fluid contamination, or washdown environments. With its PNP switching logic and adjustable hysteresis, it integrates smoothly into PLCs or relay-based controls for safety interlocks, pressure alarms, or automated shutdowns. Its robust overpressure tolerance and durable housing also make it a solid choice for mobile hydraulics and fluid processing where long-term reliability is critical.

TECHNICAL DATA

GENERAL DATA

Adjustment range max	16 bar
Adjustment range min	0 bar
Electrical connection	AMP Superseal
Process connection	1/4 NPT
Function	Normally Closed (SPST)
Output	PNP
Burst pressure	60 bar
Pressure max	40 bar



TEMPERATURE & MATERIALS DATA

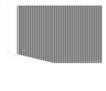
Temperature of media from	-30 °C				
Temperature of media to	110 °C				
Temperature ambient from	-30 °C				
Temperature ambient to	100 °C				
Material of body	Stainless steel 1.4305				
Material of wetted parts	TPE, Stainless steel 1.4305				
Material membrane	TPE				

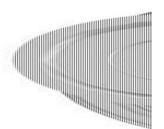
ADDITIONAL DATA

Supply voltage dc max	32 V DC
Supply voltage dc min	9.6 V DC
Pressure rise	≤ 1 bar/ms
Switching time	< 4 ms
Switching point adjustment range	3100 % of adjustment range(full scale), set at factory
Weight	80 g

SAFETY & APPROVALS

IP class	IP67
Hysteresis	298% full scale, programmable at factory (maximum tolerance $\pm 1.0\%$ of adjustment range nominal pressure)
Shock resistance	500m / s ² ; 11 ms half sine wave; DIN EN 60068-2-27
Vibration resistance	20g: 42000 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	5,000,000 pulsations at rise rates to 1 bar/ms nominal pressure
Repeatability	±0.1 % of adjustment range (full scale)







DIN EN 175301-803-A		MI12 - DRN E	N 61078-2-101 A	ISO 15170-A1-4.1	
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