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SUCO - 0166/0169 PRESSURE SWITCH

Compact design

0166401031003
0,1..1 bar, G1/4, No, NBR, Screw

- Up to 42 V
- Spade or screw terminals
- Six adjustment ranges from 0,1..1 bar to 50..150 bar
- Normally open or normally closed
- Overpressure safety of 300 bar or 600 bar

PRODUCT DESCRIPTION

The SUCO 0166 (diaphragm) and 0169 (piston) series offer compact and cost-effective pressure monitoring in a robust zinc-plated steel body with a hex 24 head. Operating up to 42 V AC/DC and supporting up to 4 A resistive load, these switches feature either spade (AMP 6.3 × 0.8 mm) or M3 screw terminals and are available in six adjustable setpoint ranges. They provide stable switching accuracy (±0.2–0.5 bar depending on range) and overpressure resilience up to 300 bar (0166) or 600 bar (0169), with burst pressures reaching around 400 bar. Featuring IP65 protection when used with an optional cable cap, mechanical life expectancy of 1 million cycles at ≤50 bar, vibration resistance of 10 g, and shock tolerance up to 294 m/s², they deliver reliable performance across –40 °C to +120 °C.
In practical use, the 0166/0169 switches are ideal for hydraulic and pneumatic systems in industrial machinery, mobile hydraulics, and water treatment setups where on-site adjustability and rugged performance are required. The adjustable pressure range is easily set on installation, and units may also be factory pre-set and sealed for tamper prevention. Their reliable SPST output (NO or NC) is suited to pump control, safety shutdowns, alarms, and general system monitoring. The diaphragm type is well-suited for sensitive fluid applications, while the piston variant is better for higher pressures—offering OEMs flexibility in integrating these reliable, galvanically isolated switches without the need for external power.

TECHNICAL DATA

Adjustment range max	1 bar
Adjustment range min	0.1 bar
Approvals	CSA US, RoHS II
Contact rating max	4 A
Deviation max	±0,2
Electrical connection	Screw (M3)
Function	Normally open
IP class	IP00
Material membrane	NBR
Material of body	Galvanized steel

Material of wetted parts	Galvanized steel, NBR
Max switching frequency/min	200
Mechanical life expectancy	1 million exchanges
Pressure max	400 bar
Process connection	1/4 BSP
Temperature ambient from	-20 °C
Temperature ambient to	80 °C
Temperature of media from	-40 °C
Temperature of media to	100 °C
Weight	90 g
Voltage ac/dc max	42 V
Voltage ac/dc min	10 V