

SUCO - 0180/0181 PRESSURE SWITCH

Long service life

0180457031003
 0,3..1,5 bar, G1/4, CO, NBR, Spade



- Up to 250 V
- Spade terminals
- Five adjustment ranges from 0.3-1.5 bar to 50-200 bar
- Changeover (SPDT)
- Over pressure safety from 100 bar up to 600 bar



PRODUCT DESCRIPTION

The Suco 0180 (diaphragm) and 0181 (piston) switches are compact, high-performance mechanical pressure sensors housed in a zinc-plated steel (HEX 27 mm) body. Designed to handle up to 250 V AC/DC and up to 4 A resistive load via silver-contact SPDT switch, they are suited for challenging environments. Switching ranges span five field-adjustable bands, with factory-set hysteresis between 10–30 %. They offer strong overpressure resilience: diaphragm version withstands up to 400–700 bar, piston up to 700 bar . Environmental durability includes IP65 when paired with a socket, vibration tolerance to 10 g (5–200 Hz), shock resistance to 294 m/s², mechanical life up to 1 million cycles, and a switching frequency up to 200 per minute. Multiple process connections (G¹/₄, ¹/₄-18 BSPP, NPT, UNF, M10×1 taper, M12×1.5) and sealing options (NBR, EPDM, FKM, HNBR, FFKM) ensure compatibility with diverse media and temp ranges from –40 °C to +120 °C.

Practical and versatile, the 0180/0181 series is ideal for hydraulic powerpacks, mobile hydraulics, compressors, pneumatic controls, water systems, and general industrial pressure safety or control circuits. The diaphragm type better suits gaseous media and low-pressure ranges, while the piston variant excels in high-pressure hydraulic applications. Its quick-connect spade terminals (AMP 6.3 × 0.8 mm) and rugged steel housing offer fast installation and maintenance ,whether field-adjusted or factory preset, delivering stable, repeatable switching thresholds under high cycling and load. The Suco 0180/0181 stands out as a reliable, cost-effective solution for precise pressure threshold monitoring in tough real-world operations.

TECHNICAL DATA

Adjustment range max	1.5 bar
Adjustment range min	0.3 bar
Approvals	CSA US, RoHS II
Contact load max ac	4 A
Contact load max dc	0.25 A
Deviation max	±0,2
Electrical connection	Spade (AMP 6,3x0,8 mm)
Function	Changeover (SPDT)
Hysteresis	10-30% depending on set value

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	100 bar
Process connection	1/4 BSP
Temperature ambient from	-20 °C
Temperature ambient to	80 °C
Temperature of media from	-30 °C
Temperature of media to	100 °C
Type Pressure Switch	High accuracy
Weight	100 g
Voltage ac/dc max	250 V
Voltage ac/dc min	10 V

