

Pressure Switches 1.06" (hex 27mm)

Snap action micro-switch with silver or gold contacts



- High-quality micro-switch for reliable switching
- Switching point easy to adjust¹⁾
- Differential can be set in our factory²⁾
- Self-cleaning contacts for a long working life (only 250V versions)
- High overpressure safety
- Long working life under harsh operating conditions
- Connector plug or protective cap to protect against moisture and dirt, and thus easy replacement on site by service personnel
- Various thread connections available to suit your installation
- Ready-wired variants – see pages 34 – 37
- A choice of zinc-plated steel or stainless steel as body material and a selection of diaphragm materials ensure high resistance to media

¹⁾ Switches we have preset are secured with sealing paint and have the switching pressure stamped on their body.

²⁾ Except for series 0140 / 0141

Technical Data



	Max. Voltage			Max. current			Body material					
	24 V	42 V	250 V	50 mA	2 A	4 A	Gold contacts	Silver contacts	Adjustable Differential	Zinc-plated steel	Stainless steel 1.4305	DIN valve connector
0140 ^{*)}			•		•			•			•	
0141 ^{*)}			•		•			•			•	
0170		•				•		•	•	•		
0171		•				•		•	•	•		
0180 ^{*)}			•			•		•	•	•		
0181 ^{*)}			•			•		•	•	•		
0183			•			•		•	•	•		
0184 ^{*)}			•			•		•	•	•		•
0185 ^{*)}			•			•		•	•	•		•
0186 ^{*)}			•			•		•	•	•	•	
0187 ^{*)}			•			•		•	•	•	•	
0190	•			•			•		•	•		
0191	•			•			•		•	•		
0196	•			•			•		•	•	•	
0197	•			•			•		•	•	•	

*) For further details of switching performance, see page 7

Technical Data

Degree of protection:	IP65 with suitable connector installed Terminals IP00
Switching frequency:	200 / min.
Temperature stability for diaphragm/seal materials:	NBR (BunaN) -22 °F – +212 °F (-30 °C – +100 °C) EPDM -22 °F – +248 °F (-30 °C – +120 °C) FKM 23 °F – +248 °F (-5 °C – +120 °C) Silicone -40 °F – +248 °F (-40 °C – +120 °C) HNBR -22 °F – +248 °F (-30 °C – +120 °C)
Mechanical life expectancy:	10 ⁶ cycles (life expectancy of diaphragm pressure switches only for pressures up to max. 725 psi)
Vibration resistance:	10 g / 5 – 200 Hz sine-wave
Shock resistance:	294 m/s ² ; 14 ms half-sine-wave
Switching performance:	see page 7
Differential:	adjustable 10 – 30% (only at factory); type 0140/0141 not adjustable, standard value approx. 10 – 20%
Max. ramp rate:	≤ 15 psi / ms

CE Marking

Directives of the European Council

Machinery Directive,
EMC Directive
Low Voltage Directive
ATEX Directive

Equipment that falls under these directives must have a declaration of conformity and carry the CE marking.

SUCO pressure switches are electrical equipment and therefore fall under the Low Voltage Directive 73/23/EC.

An EC Declaration of Conformity has been prepared for all products that fall under these directives and is kept on our premises. The catalogue pages for the relevant switches carry the CE marking.