

# Electronic Pressure Switches



- Precision pressure sensors for high accuracy (0.5 % full scale)
- Electronic evaluation of switching point permits extremely small or very large differential settings
- Switching point easily set by the user



## Technical data for electronic pressure switches

	0520	0570
Switching function:	SPST-NO (normally open) / SPST-NC (normally closed)	SPST-NO / SPST-NC programmable, time-delayed switching, zero-resetting, peak-value memory (within setting range), switching-pointcounter
Differential:	2 – 95% programmable at our works (max. tolerance $\pm 1.0\%$ full scale)	1 – 99% programmable using key-pad
Adjustment:	Switching point can be set on site by the customer using a screwdriver via setting potentiometer when operating voltage is applied	Programmable using key-pad on front face
Outputs:	Transistor output (1.4 A / PNP)	2 Transistor outputs (each 1.4 A / PNP) 1 analogue output (4–20 mA)
Indication of circuit status:	—	By 2 LEDs (yellow)
Time-delayed switching:	—	Adjustable 0 – 3.0 s
Pressure display:	—	Current pressure can be shown in bar or PSI on 3-digit LED-display (red)
Materials:	Zinc-plated steel body	Medium-contact parts anodised aluminum, body is zinc die-casting
Access coding:	—	The switch can have a number code between 1 and 999
Supply voltage:	18 – 36 VDC	12 – 30 VDC
Degree of protection:	IP65	
Switching time:	< 4 ms	
Accuracy:	$\pm 0.5\%$ (FS at room temperature)	
Temperature range:	NBR, EPDM: -4 °F – +176 °F (-20 °C – +80 °C); FKM: 23 °F – +176 °F (-5 °C – +80 °C)	
Temperature compensation:	-4 °F – +176 °F (-20 °C – +80 °C), error = 1.5% overall	
Temperature drift:	$\pm 0.2\%$ / 10 K	
Life expectancy:	5 x 10 <sup>6</sup> cycles	
Vibration resistance:	10 g at 5 – 2000 Hz sine-wave	
Shock resistance:	294 m/s <sup>2</sup> , 14 ms half-sine-wave to DIN 40046	
EMC:	To EN 50081-1, EN 50081-2, EN 50082-2	

### 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 electronic switches comply with the EMC Directive 89/336/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.