# CLARK SOLUTIONS SQ Pressure Switch

FS Adjustable Set Point Ranges, 10-120 PSI

## DESCRIPTION

Model SQ is a simple, reliable low cost pressure switch that uses a spring loaded diaphragm as the sensing element. Brass connections and Buna-N diaphragm are standard. The switch point is field adjustable against a visible reference scale.

In operation, the diaphragm actuates a snap action electrical switch that insures a positive, instantaneous electrical contact under all operating conditions.

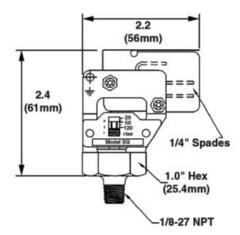
#### c¶Nus C€ RoHS

#### **SPECIFICATIONS**

Set Point Range- 2-120 PSI (0.14-8.3 bar) Set Point Tolerance- ±1 PSI or 5% (0.07 bar) Max Operating Pressure- 250 PSI (17 bar) Proof Pressure- 750 PSI (51 bar) Switch Deadband (Differential)- 10-20% Current Rating- 10 A @ 125/250 VAC; 5A @30 VDC Media Connection- 1/8" NPT Male Brass Circuit Form- SPDT Electrical Connections- 1/4" Spade Diaphragm- Buna-N Cycle Life- 1 Million Cycles



### **DIMENSIONS (MM)**



## **ORDERING INFORMATION**

| <u>Model</u> | <u>Adjustment Range</u> |
|--------------|-------------------------|
| SQ-1         | 2-10 PSI                |
| SQ-2         | 6-30 PSI                |

SQ-3

20-120 PSI

The snap-action design will maintain its state with contacts either open or closed, until a precise set point is reached when it will snap over center to a new state. It will remain in that state until a distinct change towards its original setting is sensed, at which time it will snap back to its original state.

The design's snap-action feature prevents contact intermittency near its switch point, which is common in creeper designs. As system pressures fluctuate, our switches inherent differential prevents searching. Only the highest quality snap-action switches are used. The switches are UL, CSA, and military approved.

The elastomer diaphragm, which moves a precise .040 of an inch, ensures accurate, instantaneous contact under all operating conditions. While nitrile is preferred for general use, we can also provide ethylene

