



Honeywell Pressure Switches

High Pressure: HP Series, HE Series

Factory set 150 psi to 4500 psi [10,34 bar to 310,26 bar]

Low Pressure: LP Series, LE Series

Factory set or field adjustable 3.5 psi to 150 psi [0,24 bar to 10,34 bar]



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Honeywell Pressure Switches are durable, reliable electromechanical gauge pressure on/off switches that are available with either single pole single throw (SPST) normally open or normally closed circuitry, or single pole double throw (SPDT) circuitry. Their IP67 environmental sealing and high proof pressure and burst pressure ratings allow for use in many rugged applications that require the making or breaking of an electrical connection in response to a pressure change of the system media.

The media (gas or liquid) pressure is applied via the port of the switch to a diaphragm or sealed piston. A pre-compressed spring on the other side of the sealed piston or diaphragm controls the set-point pressure. If the force resulting from the pressure is greater than the load on the spring, the electrical contacts within the switch will change state. If the contacts are normally open when no pressure is applied, they close on increasing pressure when the set point is reached. On decreasing pressure, the contacts will open again at a pressure somewhat less than the set switching point. The difference between the activation point on increasing pressure and the deactivation point on decreasing pressure is called hysteresis. The set point pressure for the switch can be configured such that the switch will actuate on increasing or decreasing system pressure.

Features

- Life cycle rating: up to 2 million
- IP67 sealing rating
- Operating temperature range: -40 °C to 120 °C [-40 °F to 248 °F]
- Proof pressure: 10000 psi [689 bar] (High Pressure), 500 psi [34,47 bar] (Low Pressure)
- Burst pressure: 20000 psi [1379 bar] (High Pressure), 750 psi for 3.5 psi to 22 psi, 1250 psi > 22 psi (Low Pressure)
- Hysteresis option (HP, HE, and LP Series only)
- Variety of pressure ports and electrical terminations
- Pressure switching set point range: Factory set 150 psi to 4500 psi [10,34 bar to 310,26 bar] (High Pressure) or factory set or field adjustable 3.5 psi to 150 psi [0,24 bar to 10,34 bar] (Low Pressure)
- Switching point accuracy: up to ± 2 %

Potential Applications

TRANSPORTATION

- Agricultural machinery
- Heavy duty construction machinery
- Heavy duty trucks
- Lawn & garden
- Marine vessels
- Material handling machinery
- Railway

INDUSTRIAL

- CNC machines
- Compressors, boilers
- Fracking equipment
- Food & beverage equipment
- Generators
- HVAC/R equipment
- Mud pumps
- Pneumatic equipment
- Presses and punches
- Pressure washers
- Trash compactors
- Water jet cutting machines
- Water pumps

LONG LIFE • HIGH PRODUCTIVITY • RELIABLE SWITCHING