



PRESSURE

DIFFERENTIAL PRESSURE SWITCH P74 SERIES

DESCRIPTION

The **Johnson Controls Model P74 Differential Pressure Switch** measures the difference in pressure exerted upon its two sensing elements and operates an SPDT switch at the differential pressure setpoint. The setpoint may be adjusted without removing the cover and is visible on a calibrated scale.

FEATURES

- **Brass bellows**
- **Completely enclosed contact mechanism**
- **Externally adjustable with visual setpoint scale**
- **Universal mounting bracket supplied**
- **Heavy-duty elements withstand high overrun pressure**
- **For air, oil, or other liquids**
- **One-year warranty**



P74FA-1C

APPLICATIONS

These differential pressure controls are used as operating controls and/or alarm controls. They are available for applications sensing air, oil, or liquid. Typical applications include proof-of-flow across a chiller or water-cooled condenser, proof-of-flow in a heating system, and lube oil pressure sensing on refrigeration compressors. In the water chiller application, the control provides low temperature protection. On proof-of-flow applications, the control measures pressure drop across two different points in either a closed water circulating system or a city water supply system. On a proof-of-flow application in a water chiller system, the control activates an alarm or signal light to warn the operator if a loss of water flow occurs.

SPECIFICATIONS

| Model* | Pressure differential range psid (kPa) | Connector size | Switch action | Electrical rating | Switch differential psig (kPa) | Maximum overrun pressure psig (kPa) |
|----------|---|--------------------------------------|---|-----------------------|-----------------------------------|--|
| P74AA-1 | 8-70 (55-483) | 36" capillary with 1/4" flare nut | SPST closes on decreases in pressure difference | 20A 120V, 50/60 Hz | 8-30 adjustable (55 to 206) | 180 (1241) |
| P74BA-1 | | | SPST opens on decreases in pressure difference | | | |
| P74EA-8 | 2-30 (14-207) | 36" capillary w/ 1/4" flare nut | SPDT snap-acting | 16A 120V, 50/60 Hz | 3.5 (24) | |
| P74EA-10 | | 1/4" male flare | | | | |
| P74FA-1 | 8-60 (55-414) | 1/4" FNPT | | 6A 120V, 50/60 Hz | 1.5 (10) | |
| P74FA-5 | | | | | | |
| P74FA-10 | 2-30 (14-207) | 36" capillary w/ 1/4" flare nut | | 1A 24V, 50/60 Hz | 2.5 (17) | |
| P74JA-2C | 8-60 (55-414) | 1/4" male flare | | | | |

ORDERING INFORMATION

Specify model number as shown in specifications above.