



DIFFERENTIAL PRESSURE SWITCH P32 SERIES



P32 Switch with L Bracket

DESCRIPTION

The **Johnson Controls P32 Series Differential Pressure Switch** is used to detect differential pressure or low positive gauge pressure by using only the high pressure connection and leaving the low pressure connector open. It can also detect vacuum by using only the low pressure connection and leaving the high pressure connector open to ambient pressure.

The **P32 Series** is factory set at the bottom of its operating range with the diaphragm in a vertical plane. The setting will change if mounted in other positions.

The **P32AF** has a close differential, and the **P32AC** has a standard differential.

FEATURES

- *Easy-to-read setpoint scale*
- *Versatile mounting options*
- *Durable construction*
- *Setpoint switching repeatability*
- *One-year warranty*

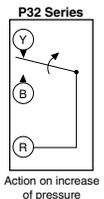
APPLICATION

- *Air proving with electric duct heaters, humidifiers, and more*
- *Maximum air flow controller for variable volume systems*
- *Reheat duct-powered systems*
- *Clogged filter detection*
- *Detection of icing of air conditioning coils and initiation of defrost cycle*

SPECIFICATIONS	
Relay Type	SPDT (R=Com, B=NC, Y=NO) R to Y on DP increase
Relay Rating	10 A resistive, 120-277, (AC only)
Setpoint	Screw adjustment in 2 ranges
Differential	By Setpoint from 0.025" to 0.6" WC
Progressive Repeatability	±10% over full range
Reset Automatic	Reset by differential
Visual Indication	Internal setpoint scale
Sensor Type	Buna-N Diaphragm
Operating Pressure Range	Range dependant on unit ordered
Overpressure	(Burst) 27.7"WC (6.89 kPa)
Max Operating Pressure	(Proof) 12" WC (2.99 kPa)
Operating Temperature	-40° to 165°F (-40 to 75°C)
Operating Humidity	10 to 90% Non-condensing
Wetted Parts	Buna-N
Media Compatibility	Inert dry air
Process Connection	1/8" FNPT and 1/2" NPSM fitting
Wiring Terminations	3 Screw terminals, (R=Com, B=NC, Y=NO), <12 AWG
Mounting	Vertical w/ 2- keyhole bracket 0.31 (.8cm) "U" BKT or "L" BKT per order
Enclosure Rating	Zink-plated steel and polycarbonate, NEMA 1
Dimensions	3.24"W x 5.56"H x 2.16D, (8.2 x 14.1 x 5.5 cm)
Weight	1.0 lb (0.45 Kg)
Approvals	UL File # MH10588
Warranty	1 year

Motor Ratings VAC	120	208	240
AC full load amp	5.8	3.35	2.9
AC locked rotor amp	34.8	20.1	17.4
Non-inductive or resistive load 10A, 24-277 VAC			
Pilot duty - 125 VA, 24 VAC; 360 VA, 120-277 VAC			

Motor Ratings VAC	120	208	240
AC full load amp	9.8	5.65	4.9
AC locked rotor amp	58.8	33.9	29.4
Non-inductive or Resistive Load 10A, 24-277 VAC			
Pilot duty - 125 VA, 24 VAC; 360 VA, 120-277 VAC			



Model	Contact Action	Range "W.C. (Pa)	Differential "W.C. (Pa)		Setpoint	Scale Plate	Bracket
			Minimum Setpoint	Maximum Setpoint			
P32AC-1	SPDT	0.15-12 (37.4-2990)	0.07 (17.4)	0.6 (149.5)	Adjustable	Yes	L
P32AC-2*	SPDT	0.05-5 (12.5-1246)	0.04 (10.0)	0.20 (49.8)	Adjustable	Yes	U
P32AF-1	SPDT	0.05-5 (12.5-1246)	0.025 (6.2)	0.11 (27.4)	Adjustable	Yes	L
P32AF-2*	SPDT	0.05-5 (12.5-1246)	0.025 (6.2)	0.11 (27.4)	Adjustable	Yes	U

*Supplied with 1/4" compression fitting, 4" extension tube, two mounting screws, gasket, angle barb fitting installed

ORDERING INFORMATION

Specify model number as shown in specifications above.

RELATED PRODUCTS

FTG-18A-600R Sensing tube kit