

P74 Series

Differential Pressure Control



P74EA-8

Description

Series P74 measures the pressure difference between two sources: supply lines and return lines. A change in differential pressure will reposition the switching mechanism to cause corrective action of the supplementary control equipment.

Features

- field-proven Pennswitch with a completely enclosed contact mechanism
- pressure differential setting is easily changed without removing the cover

Accessories

- Includes a universal mounting bracket

Applications

- differential pressure sensing on chillers or water-cooled condensers
- lube oil failure cutout for refrigeration compressors (same as the P28, but does not incorporate time delay)
- positioning M100 Series motor-actuated valves (P74JA-2)
- to prove pump operation

To Order

Specify the code number from the following selection chart.

Selection Chart

Code Number	Switch Action	Range Pressure Differential psi (kPa) (a)	Switch Differential	Pressure Connections	Bellows Material
FOR ALL NON-CORROSIVE LIQUIDS					
P74AA-1C	SPST Closes On Decreases in Pressure Difference	8 to 70 Adjustable (55 to 483)	8 to 30 Adjustable	36 in. Cap. with 1/4 in. Flare Nut	Stainless Steel
P74BA-1C (b)	SPST Opens On Decrease in Pressure Difference				
P74EA-8C (b)	SPDT (Snap-Acting)	2 to 26 Adjustable (14 to 207)	3.5 Fixed	36 in. Cap. with 1/4 in. Flare Nut	Brass
P74FA-1C (b)					
P74FA-5C (b)		1/4 in. FNPT			
P74JA-2C	SPDT (Floating)		2.5 Fixed	1/4 in. Male Flare	

(a) Maximum continuous pressure to low pressure bellows - 180 psig (1241 kPa)

(b) Suitable for use as refrigeration pressure limiting controls

Electrical Ratings

Motor Ratings	120 V	208 V	240 V	277 V
P74AA, P74BA - 1 Phase				
AC Full Load Amp	20.0	18.7	17.0	—
AC Locked Rotor Amp	120.0	112.2	102.0	—
AC Non-Inductive Amp	22.0	22.0	22.0	—
Pilot Duty	125 VA, 120 to 600 VAC; 57.5 VA, 120 to 300 VDC			
P74EA				
AC Full Load Amp	16.0	9.2	8.0	—
AC Locked Rotor Amp	96.0	55.2	48.0	—
AC Non-Inductive Amp	16.0	16.0	16.0	16.0
Pilot Duty	125 VA, 120 to 600 VAC			
P74FA				
AC Full Load Amp	6.0	3.4	3.0	—
AC Locked Rotor Amp	36.0	20.4	18.0	—
AC Non-Inductive Amp	10.0	10.0	10.0	10.0
Pilot Duty	125 VA, 120 to 277 VAC			
P74JA				
1 Amp; 24 VAC Class 2; 50/60 Hz				