

P74 Series

Differential Pressure Control

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

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

Accessories

All models on this page include a universal mounting bracket.



P74EA-8

Selection Chart

Code Number	Switch Action	Range Pressure Differential psi (kPa) ¹	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	SPST Opens On Decrease in Pressure Difference				
P74EA-8C	SPDT (Snap-Acting)	2 to 26 Adjustable (14 to 207)	3.5 Fixed	36 in. Cap. with 1/4 in. Flare Nut	Brass
P74EA-10C				1/4 in. Male Flare	
P74FA-1C		8 to 60 Adjustable (55 to 414)	1.5 Fixed	1/4 in. FNPT	
P74FA-5C					
P74FA-10C		2 to 26 Adjustable (14 to 207)		36 in. Cap. with 1/4 in. Flare Nut	
P74JA-2C	SPDT (Floating)	8 to 60 Adjustable (55 to 414)	2.5 Fixed	1/4 in. Male Flare	

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

Technical Specifications

Electrical Ratings

Motor Ratings	120 V	208 V	240 V	277 V
P74AA, P74BA - 1 Phase				
AC Full Load A	20.0	18.7	17.0	—
AC Locked Rotor A	120.0	112.2	102.0	—
AC Non-Inductive A	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 A	16.0	9.2	8.0	—
AC Locked Rotor A	96.0	55.2	48.0	—
AC Non-Inductive A	16.0	16.0	16.0	16.0
Pilot Duty	125 VA, 120 to 600 VAC			
P74FA				
AC Full Load A	6.0	3.4	3.0	—
AC Locked Rotor A	36.0	20.4	18.0	—
AC Non-Inductive A	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				