

P28 Series

Lube Oil Pressure Cutout Control (With Time Delay)



P28

Description

The P28 series provides dependable shutdown on pressure of lubricated refrigeration compressors by sensing low lube oil pressure. A built-in time delay switch, accurately compensated for ambient temperature, allows for pressure pick up on start and avoids nuisance shutdowns on pressure drops of short duration during the running cycle.

Features

- direct-reading scale indication
- adjustable set point
- trip-free manual reset
- replacement timing relays available
- dust-protected switch

Accessories

- all models listed on this page include a universal mounting bracket
- replacement timing relays -see ordering table on next page

Applications

- Semi-hermetic Compressors
- The P28 control measures pressure available to circulate oil through the lubrication system. (Net oil pressure is the difference between oil gauge and crankcase pressure.)

Specifications

- maximum bellows pressure is 180 psig (2241 kPa)

To Order

Specify the code number from the following selection chart.

Selection Chart

Code Number	Time Delay	Time Delay Heater Circuit VAC	Type of Reset	Range ^(a) psig (kPa)	Refrigerant (R)	Pressure Connection
◆ P28AA-1C ^(b)	90 sec	120 / 240	Manual	8 to 70 (55 to 483)	Non-Corrosive ^(c)	36 in. Cap. with 1/4 in. Flare Nut
◆ P28AA-2C ^(d)	60 sec	120 / 240	Manual		Non-Corrosive ^(c)	36 in. Cap. with 1/4 in. Flare Nut
◆ P28AA-17C ^(e)	120 sec	120 / 240	Manual		Non-Corrosive ^(c)	36 in. Cap. with 1/4 in. Flare Nut
P28AA-18C	45 sec	120 / 240	Manual		Non-Corrosive ^(c)	36 in. Cap. with 1/4 in. Flare Nut
P28AN-1C	90 sec	120 / 240	Manual		Ammonia	1/4 in. Female NPT
P28DA-1C	90 sec With Runlight and Alarm Terminals	120 / 240	Manual		Non-Corrosive ^(c)	36 in. Cap. with 1/4 in. Flare Nut
P28GA-2C	90 sec	120 / 240	Automatic		Non-Corrosive ^(c)	36 in. Cap. with 1/4 in. Flare Nut
P28NA-5C	120 sec	24 VAC or VDC	Manual		Non-Corrosive ^(c)	36 in. Cap. with 1/4 in. Flare Nut

(a) Switch differential approximately 5 psi (34 kPa). Time delay relay energizes @ 9 psi (61 kPa) pressure difference, de-energized @ 14 psi (97 kPa) difference

(b) Replaces Ranco P30-3701

(c) Non-corrosive refrigerants include R-12, R-22, R-134A, R-500, R-502 (R)

(d) Replaces Ranco P30-3601

(e) Replaces Ranco P30-3801

Electrical Ratings - Pilot Duty

Time Delay Heater Circuit	Pilot Circuit	Alarm Circuit (must be same voltage as pilot circuit)	P28DA-1 Contact Rating 2 to 1: 2 to 3 (must be same voltage as time delay circuit)	
			Crankcase Heater: Term 2 to 1	Runlight: Term 2 to 3
120 / 240 VAC	750 VA, 120 / 240 VAC	125 VA, 120 / 240 VAC	10 amp 120 VAC, 5 amp 240 VAC	10W
24 VAC or VDC	125 VA, 24 VAC 57.5 VA, 24 VDC	125 VA, 24 VAC 57.5 VA, 24 VDC	—	

▲ Universal Replacement ★ Non-Stock Item. Built to Order. (R) For Refrigerants Not Listed, Contact Application Engineering

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