

P28 Series

Lube Oil Pressure Cutout Control (With Time Delay)

Description

The P28 series provides dependable lube oil protection 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

Applications

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

Accessories

- all models listed on this page include a universal mounting bracket
- replacement timing relays— refer to [Replacement Timing Relays for P28 and P29 Lube Oil Controls Catalog Page, LIT-1927395](#).



P28

Selection Chart

Code Number	Time Delay	Time Delay Heater Circuit VAC	Type of Reset	Range ¹ psig (kPa)	Refrigerant (R)	Pressure Connection
P28AA-1C ²	90 sec	120 / 240	Manual	8 to 70 (55 to 483)	Non-Corrosive ³	36 in. Cap. with 1/4 in. Flare Nut
P28AA-2C ⁴	60 sec					
P28AA-17C ⁵	120 sec					
P28AA-18C	45 sec					
P28AN-1C	90 sec	120 / 240	Manual	8 to 70 (55 to 483)	Ammonia	1/4 in. Female NPT
P28DN-1C	90 sec	120 / 240	Manual	8 to 70 (55 to 483)	Non-Corrosive ³	36 in. Cap. with 1/4 in. Flare Nut
P28DA-1C	With Runlight and Alarm Terminals					
P28GA-2C	90 sec					
P28NA-5C	120 sec	24 VAC or VDC	Manual			

1. Switch differential approximately 5 psi (34 kPa). Time delay relay energizes @ 9 psi (61 kPa) pressure difference, de-energized @ 14 psi (97 kPa) difference
2. Replaces Ranco P30-3701
3. Non-corrosive refrigerants include R-12, R-22, R-134A, R-500, R-502 (R)
4. Replaces Ranco P30-3601
5. Replaces Ranco P30-3801

Technical Specifications

The maximum bellows pressure is 180 psig (2241 kPa).

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	---	