

P28 Series Lube Oil Pressure Cutout Control with Time Delay Catalog Page

LIT-1927185

2020-04-22



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.

Refer to the *P28 and P128 Series Lube Oil Controls with Built-in Time Delay Relay Product Bulletin (LIT-125420)* for important product application information.

Features

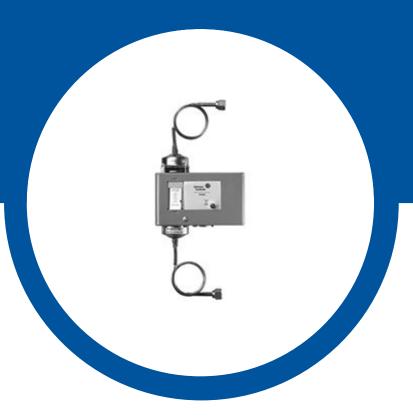
- · Direct-reading scale indication
- Adjustable setpoint
- Trip-free manual reset
- · Replacement timing relays available
- Dust-protected switch

Applications

- · Semi-hermetic compressors
- P28 Control measures pressure available to circulate oil though 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 Catalog Page (LIT-1927395)

Repair Information

If the P28 Series Lube Oil Pressure Cutout Control with Time Delay fails to operate within its specifications, replace the unit. For a replacement control, contact the nearest Johnson Controls® representative.

Selection Chart

Table 1: Selection Chart

Product Code Number	Time Delay	Time Delay Heater Circuit VAC	Type of Reset	Range¹ psi (kPa)	Refrigerant (R)	Pressure Connection
P28AA-1C ²	90 seconds	120/240	Manual	8 to 70 (55 to 483)	Non-corrosive ³	36 in. capillary with 1/4 in. flare nut
P28AA-2C⁴	60 seconds					
P28AA-17C ⁵	120 seconds					
P28AA-18C	45 seconds					
P28AN-1C	90 seconds	120/240	Manual	8 to 70 (55 to 483)	Ammonia	1/4 in. internal NPT
P28DN-1C	90 seconds with					
P28DA-1C	runlight and alarm terminals	120/240	Manual	8 to 70 (55 to 483)	Non-corrosive ³	36 in. capillary with 1/4 in. flare
P28GA-2C	90 seconds		Automatic			nut
P28NA-5C	120 seconds	24 VAC or VDC	Manual			

¹ Switch differential approximately 5 psig (34 kPa). Time delay relay energizes at 9 psig (61 kPa) pressure difference, de-energized at 14 psig (97 kPa) difference

P28 Series Lube Oil Pressure Cutout Control with Time Delay technical specifications

The maximum bellows pressure is 180 psig (2,241 kPa).

Table 2: Electrical Ratings - Pilot Duty

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

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.



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

Single point of contact

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