

P29 Series Low Pressure Control with Time Delay

Description

P29NC is a low pressure control with time delay and lockout, which requires manual reset. A drop in pressure energizes the time delay relay and opens a contact after the time delay, shutting down the equipment. The time delay prevents nuisance shutdowns due to momentary fluctuations in system pressures.

Refer to the *P29 Series Low Pressure Control with Time Delay Relay Product Bulletin (LIT-125425)* for important product application information.

Features

- direct reading scale indication
- dust-protected snap action switch
- trip-free manual reset
- replacement timing relays available

Applications

- chiller low temperature
- industrial equipment, oil pressure lubrication
- low suction pressure

Technical Specifications

- pilot duty rating of 750 VA, 120/240 VAC
- external step down transformer for 440 and 550 VAC applications must be of sufficient capacity to supply 15 VA at 120 VAC or 30 VA at 240 VAC for time delay

Accessories

- universal mounting bracket (271-51)
- replacement timing relays (Refer to *Replacement Timing Relays for P28 and P29 Lube Oil Controls Catalog Page [LIT-1927395]*).



P29 Series Low Pressure Control

Repair Information

If the P29 Series Low Pressure 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

Product Code Number	Switch Action	Pressure Range	Differential psi (kPa)	Max Overpressure psig (kPa)	Max Working Pressure psig (kPa)	Pressure Connection	Time Delay Setting
P29NC-2C	Single-Pole, Single-Throw (SPST)	20 in. Hg Vacuum to 100 psig (-68 to 690 kPa)	2.2 ±1.5 (15.2 ±10.3)	325 (2,241)	250 (1,723)	1/4 in. external flare fitting	60 seconds (factory set)
P29NC-3C						36 in. copper capillary tube with 1/4 in. flare nut	120 seconds
P29NC-49C							90 seconds
P29NC-53C							120 seconds
P29NF-1C ¹							

1. With alarm contacts

Example: Setpoint at 10 psig. On a rise in pressure, the timing circuit opens at 10 psig and time out ends. On a fall in pressure, the timing circuit energizes at 6 to 9 psig and the time out begins. If the pressure fails to reach 10 psig within the 60 second time delay, the main contacts open, shutting down the controlled equipment.