SIEMENS

Technical Instructions

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QP Series

Pressure Switches for Gas and Air

ISO 9001 REGISTERED FIRM







Description

GAS0048R1

QP... pressure switches are used for gas and air pressure supervision on industrial and commercial burner applications.

The QPL31... series pressure switches break the electrical circuit when the pressure drops below the adjusted value.

The QPH31... series pressure switches break the electrical circuit when the pressure increases above the adjusted value.

Features

- UL listed for USA and Canada, FM approved, ISO 9001 certified; European approved versions available.
- Adjustable pressure range from 1 to 112 inches water column (WC).
- Automatic and manual reset models.
- Surge protected up to 15 psi.

Product Numbers

Table 1.

	Pressure Range		
Product Number	Inches Water Column (WC)	mbar	Execution
QPL31.010M00	0.5 to 4	1.2 to 10	
QPL31.050M00	1 to 20	2.5 to 50	Manual Reset Low
QPL31.140M00	7 to 55	17.5 to 137	
QPH31.050M00	2 to 20	5 to 50	Manual Paget High
QPH31.150M00	10 to 60	25 to 150	Manual Reset High
QPL31.010A00	0.5 to 4	1.2 to 10	- Automatic Reset Low
QPL31.050A00	1 to 20	2.5 to 50	
QPL31.075A00	5 to 30	12.5 to 75	
QPL31.280A00	28 to 112	70 to 280	
QPH31.010A00	0.8 to 4	2 to 10	
QPH31.050A00	2 to 20	5 to 50	- Automatic Reset High
QPH31.090A00	5 to 35	12.5 to 87	
QPH31.280A00	28 to 112	70 to 280	

Specifications	Electrical rating	10A @ 125 to 250 Vac 1/3 HP @ 125 to 250 Vac	
	Maximum operating pressure Maximum surge pressure Operating temperature	6 psi (400 mbar) 15 psi (1 bar) for 2 seconds -40°F to 140°F (-40°C to 60°C)	
Operation Range Adjustment	Remove the cover to adjust the pressure cut-off setting. Turn the range dial clockwise to increase the pressure setting, or counterclockwise to decrease the pressure setting. If the yellow ring of the reset button is above the cover, the switch is in the open position and must be manually reset before continuing burner operation.		
Manual reset models			

Wiring

NOTE: Wiring must be performed by a licensed electrician.

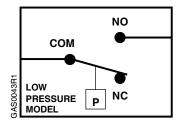


Figure 1. Typical Wiring for Low Pressure Models.

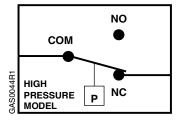
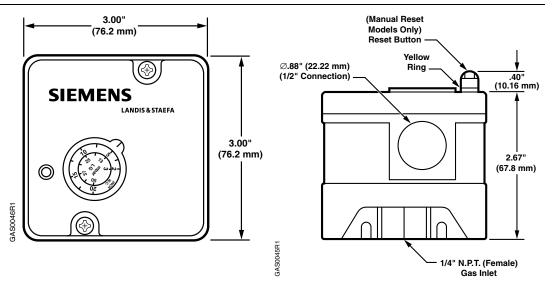


Figure 2. Typical Wiring for High Pressure Models.

Mounting

- All switches can be mounted in either a horizontal or vertical position.
- All models have a 1/4-inch NPT female pressure connection on the metal base.
- Check connections for leakage after installation.

Dimensions



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