Antunes Controls
DIVISION OF A.J.ANTUNES & CO.

Versa Plus
Gas Pressure Switches

Automatic Reset

Manual Reset

Antunes Controls' new line of gas pressure switches monitors gas pressure and breaks the electrical control circuit when pressure drops below or rises above the desired set point. The gas pressure settings are adjustable and available in manual or automatic reset operation.

These switches are sturdy and constructed with a durable plastic electrical enclosure and a die-cast aluminum inlet base.

Features:

- Compact design.
- Accurate.
- Adjustable set points.
- Manual or automatic reset.
- Ventless.
- Cost-effective pricing.
- Custom design per OEM specifications.
- Mounts to any modular valve body.

Please read this instruction sheet carefully to assure correct installation. This equipment must be installed only by a licensed electrician who is experienced with combustion safeguard control systems and understands the functions of an interlocking switch such as gas pressure switches. Prior to being put into operation in conjunction with the combustion safeguard systems, all switches should be tested for proper range setting and proper wiring. Check piping connections and switch housing for leaks with a soap bubble test. All exhaust fans and blowers should be inspected and checked for proper rotation prior to starting up.

A.J. Antunes & Co.

P/N 1011063 12/09

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Specifications

Electrical Ratings
6A @ 120 VAC
6A @ 240 VAC
1/8 HP, 120 & 240 VAC

Adjustable Operating Pressure
1 to 410 mbar
0.5 W.C. to 6 psi (different ranges)

NOTE: To avoid initial line fill pressure spikes, unit should be placed downstream of the regulator.

Max. Operating Pressure:
7 psi (483 mbar)

Ambient Operating Temperature:
5°F to 180°F (-15°C to 82°C)

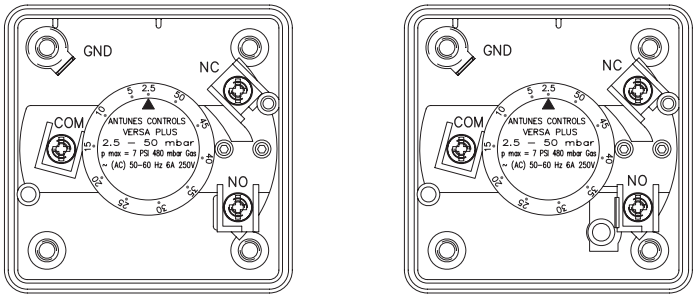
Field wiring to be rated @ 90°C (194°F) for maximum ambient

Shipping Weight:
.5 lbs. (.225 kg)

Options:
4-Pin DIN Connector
Neon Lamp Indicator
Side Mounting

Agency:

c UL us (pending) CE (pending) FM

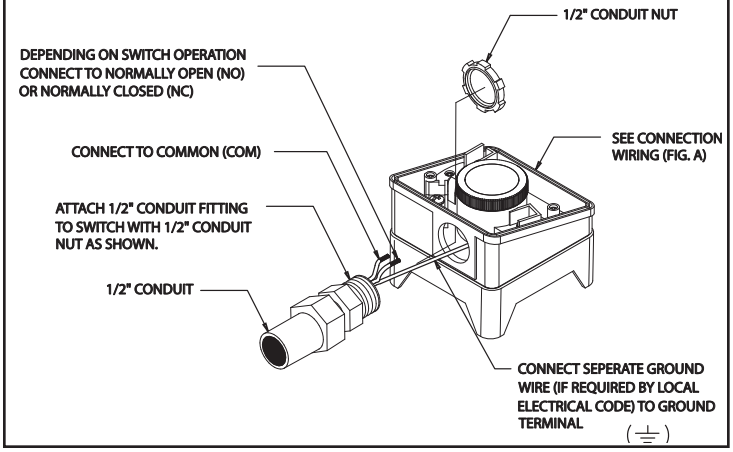


Automatic Reset

Fig. A

Manual Reset

CONDUIT CONNECTIONS



HIGH PRESSURE

When pressure increases above setpoint, NO closes, NC opens

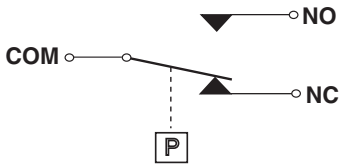


Diagram Shows Pressure Being Applied To Switch

LOW PRESSURE

When pressure decreases below setpoint NO opens, NC closes

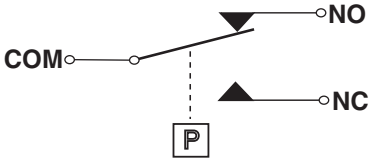
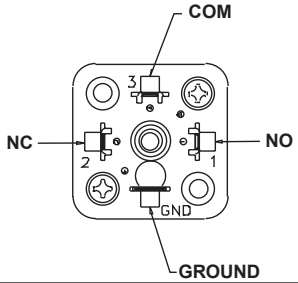


Diagram Shows Pressure Being Applied To Switch

DIN CONNECTOR WIRING



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Mounting

All switches can be mounted in either horizontal or vertical position. Switches should be reasonably level but do not require accurate leveling.

Single gas switch models have a 1/4” NPT (female) gas inlet on the standard base.

Piping can be either standard black pipe or aluminum tubing.

All switches can be supported by the inlet pipe, but optional mounting brackets and bases are available (see Figures 1 through 5 below).

Switches have been factory calibrated and tested for leaks. However, it is recommended that switch, gas pipe inlets and connections be soap bubble tested for leaks after installation.

Operation

Low Gas Pressure Models

Low gas pressure switches break the electrical circuit on pressure drop at the point when gas pressure becomes lower than the indicated set pressure.

In order to reset the switch, the gas pressure in the chamber must be higher than the indicated setting. For manual reset switches, the reset button must also then be pressed.

High Gas Pressure Models

High gas pressure switches break the electrical circuit when pressure rises above the indicated preset pressure.

In order to reset the switch, the gas pressure in the chamber must be lower than the indicated setting. For manual reset switches, the reset button must also then be pressed.

Range Adjustment - All Models

To adjust gas pressure cut-off setting, remove the cover. Turn the range scale adjustable knob (Figure 6) clockwise to increase pressure setting, counterclockwise to decrease pressure setting. Install cover and tighten the two cover screws to prevent tampering.

STANDARD SWITCH BASE PANEL MOUNTING SUGGESTIONS

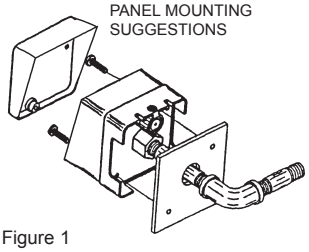

Figure 1

STANDARD SWITCH BASE REMOTE MOUNTING SUGGESTIONS

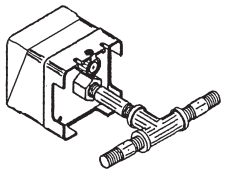

Figure 2

OPTIONAL SWITCH BASE SIDE MOUNTING SUGGESTIONS WITH “O” RING

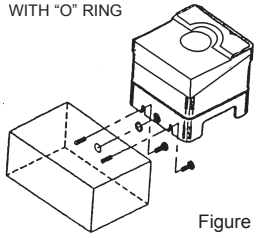

Figure 3

OPTIONAL SWITCH BASE BOTTOM MOUNTING SUGGESTIONS WITH “O” RING

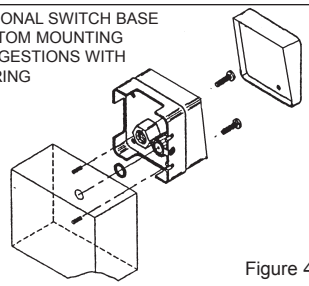

Figure 4

OPTIONAL SWITCH BASE SIDE-BY-SIDE MOUNTING SUGGESTIONS HIGH AND LOW GAS PRESSURE

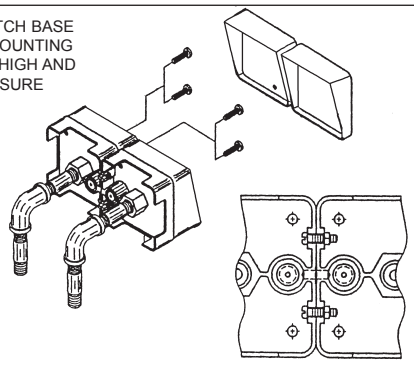

Figure 5

RANGE SCALE (ADJUSTABLE KNOB)

RESET BUTTON

Automatic Reset

Manual Reset

Figure 6

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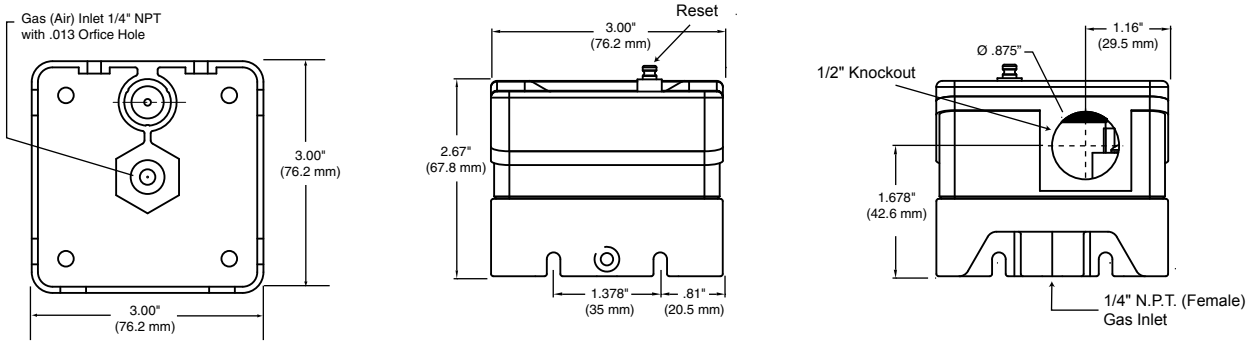
Low Ranges Available			
Model	**Part No.**	**W.C.**	**mbar**
Automatic Reset			
FGA-L 010	8261005010	0.5”–4”	1.2–10
FGA-L 050	8261006050	1”–20”	2.5–50
FGA-L 110	8261007110	4.8”–44”	12–110
FGA-L 410	8261008410	28”–164.50”	70-410
Manual Reset			
FGM-L 010	8271001010	0.5”–4”	1.2–10
FGM-L 050	8271002050	1”–20”	2.5–50
FGM-L 075	8271003075	5.2”–30”	13-75
FGM-L 136	8271004136	6.8”–54.5”	17-136

High Ranges Available			
Model	**Part No.**	**W.C.**	**mbar**
Automatic Reset			
FGA-H 010	8261004010	0.5”–4”	1.2–10
FGA-H 050	8261001050	1”–20”	2.5–50
FGA-H 110	8261002110	4.8”–44”	12–110
FGA-H 410	8261003410	28”–164.50”	70–410
Manual Reset			
FGM-H 050	8271005050	2”–20”	5–50
FGM-H 087	8271006087	8”–35”	20–87
FGM-H 150	8271007150	10”–60”	25–150

NOTE: These part numbers are for standard 1/4” NPT gas inlet and 1/2” electrical knockout. For optional NEMA 4 Kit, 4-Pin DIN Connector, Neon Lamp Indicator, or Side Mounting, contact Antunes Controls for specific information.

Dimensions



Limitation of Liability

It is understood and agreed that seller’s liability whether in contract, in tort, under any warranty, in negligence or otherwise shall not exceed the return of the amount of the purchase price paid by purchaser and under no circumstances shall seller be liable for special, indirect or consequential damages. The price stated for the equipment is a consideration in limiting seller’s liability. No action, regardless of form, arising out of the transactions may be brought by purchaser more than one year after the cause of action has accrued.

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