



PRESSURE

DIFFERENTIAL PRESSURE SWITCH MODELS RH-3, RH-3-2

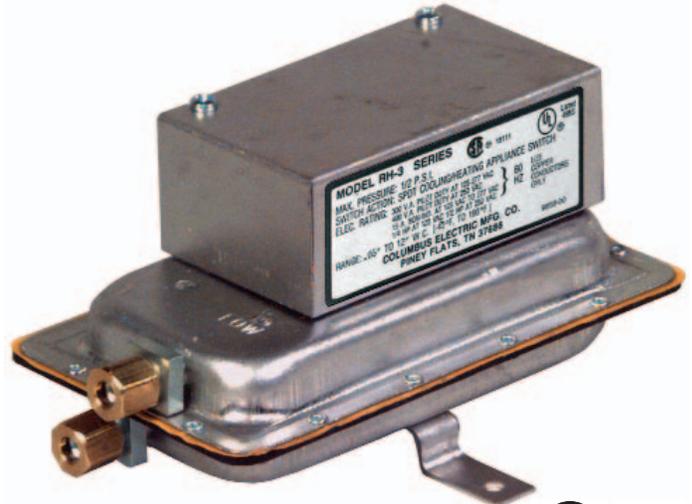
DESCRIPTION

Model RH-3 and RH-3-2 Differential Pressure Switches monitor low-air pressure, vacuum, or differentials of air pressure. These switches are commonly used to prove blower operation, sense dirty filters, and monitor pressure drop across coils.

Models RH-3 and RH-3-2 are shipped with 1/4" compression fittings, suitable for use with 1/4" OD copper or plastic tubing, and a 12" (30.48 cm) length of 1/4" plastic tubing.

OPERATION

When pressure is applied to the high side of the air flow switch or vacuum is applied to the low side, an internal diaphragm moves against and operates the lever of the snap-switch. When the air flow switch is at rest (not operating), the snap-switch N.C. (normally closed) contact is made to common. When an increase in differential pressure operates the snap-switch, the N.O. (normally open) contact is made to the common terminal. The action of the diaphragm on the snap-switch is the same whether pressure or vacuum is being sensed. The wiring from the air sensing switch to other devices depends upon the application.



PRESSURE

SPECIFICATIONS			
Set point range		Overpressure	0.5 psig (3.5 kPa)
RH-3	0.05" to 12.0" W.C. (12.5 to 2989 Pa)	Operating temp	-40° to 180°F (-40° to 82°C)
RH-3-2	0.05" to 2.0" W.C. (12.5 to 498 Pa)	Mounting position	Any vertical plane
Switch differential	0.02" (5.0 Pa) W.C. @ min setting, 0.8" (199.5 Pa) W.C. @ max setting	Pressure connection	1/4" compression, suitable for use with 1/4" OD copper or plastic tubing
Contacts	SPDT	Approval	UL listed, CSA
Electrical rating	300 VA pilot duty @ 125-277 VAC 15A resistive @ 125 VAC 1/4 hp @ 125 VAC 1/2 hp @ 250 VAC 2.4A @ 24 VAC 0.5A @ 24-125 VDC	Weight	2.0 lb (0.91 kg)



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INSTALLATION

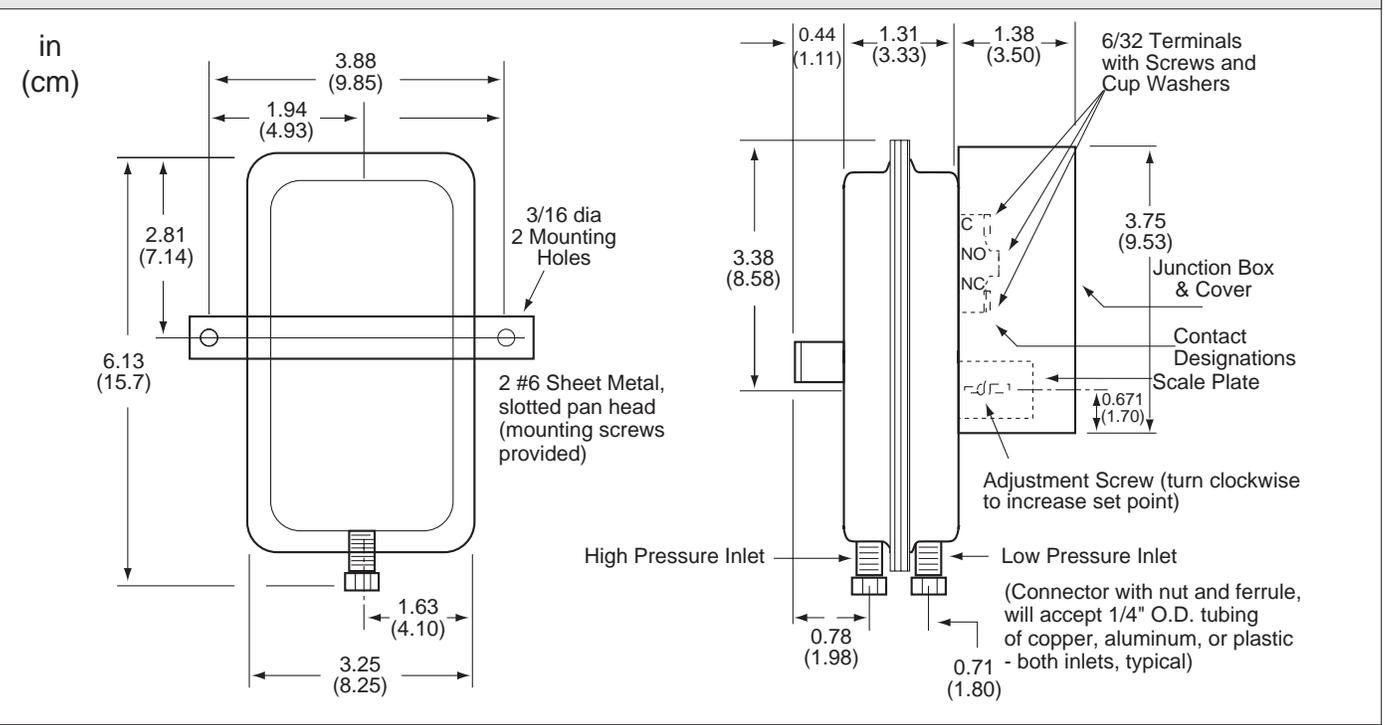
Mounting

The **RH-3** and **RH-3-2** may be used to sense pressure, vacuum, or differentials of pressure and vacuum. Using sheet metal screws, mount the control vertically on the duct or equipment. Avoid areas of high vibration. Connect the 1/4" tubing to the air flow switch using 1/4" compression fittings. Insert the other end of the tubing into area to be sensed. See Ordering Information for static pressure tips and duct impact (total pressure) tubes for use with **RH-3** and **RH-3-2** switches.

Adjustment

The adjusting screw located in the junction box may be used to change the operating point. The operating range is 0.05" to 12.0" W.C. for the **RH-3**, and 0.05" to 2.0" W.C. for the **RH-3-2**. The differential is 0.02" rising to 0.8" at highest setting. The switch will operate at 0.05" and reset before 0.03" on the low end. It will operate at 12.0" and reset before 11.2" on the high end. Rotate adjusting screw clockwise to increase setting.

DIMENSIONS



ORDERING INFORMATION

MODEL	RANGE
RH-3	0.05-12.0 "W.C. (12.5-2.99 kPa)
RH-3-C	Kele Calibrated for Your Application (specify set point)
RH-3-2	0.05-2.0 "W.C. (12.5-4.98 kPa)
RH-3-2-C	Kele Calibrated for Your Application (specify set point)

RELATED PRODUCTS

#21121	Duct impact tube
A-301, A-302	Static pressure tip