

### 3.3 SPACE HEATER

In some outdoor installations, it may be necessary to install a space heater to prevent moisture condensation. A small conventional carbon 2 watt resistor should be installed across terminals 6 and 8 in the detector. Proper values are shown in Table 3-1.

Table 3.1 - Space Heater Resistor Values

Voltage (AC or DC)	Space Heater Resistor (Ohms)
460	220,000
230	56,000
117 / 125	12,000
48	2,000
24 / 32	620

### 3.4 WIRING

The Vibraswitch, Model 366, is equipped with a threaded hub for 3/4" conduit. When the vibration amplitude is large (i.e., greater than 5 mils) it is good practice to use a short length of flexible conduit to serve as an isolator between the rigid conduit and the Vibraswitch. Wiring into the unit should be done with  $\geq 18$  stranded wire although  $\geq 14$  can be used where necessary. The Vibraswitch was not designed for wiring with heavy solid wire. However, where necessary to use a heavier wire, as in low voltage DC units, a junction box near the Vibraswitch should be used.

#### NOTE 1

The instrument housing must be sealed at the conduit outlets with a suitable compound or "trap" to prevent infiltration of moisture-laden air or corrosive gases into the housing.

#### NOTE 2

All instrument installation wiring must be done in accordance with local codes and commonly accepted practices.

To avoid unnecessary difficulty in wiring the unit, the following procedure should be followed in detail:

- When installing conduit and mounting the Model 366, it is recommended that the cover be left on the unit.
- If the Model 366 is to be mounted in unprotected or dusty areas, a dust-tight or water-tight seal should be made at the conduit entrance.
- With all mounting complete, remove cover and insert wires through conduit entrance with sufficient length to reach the terminal block.
- Strip wires back 1/4 - inch and install solderless terminals.
- Connect wires to terminals as shown in Figure 3-1.

## SECTION 4 OPERATION

### 4.1 OPERATION

The Vibraswitch, Model 366 (Refer to Figure 4-1), is sensitive to vibration in a direction (the sensitive axis) perpendicular to its mounting base. It contains a vibration detecting mechanism, which also functions as a "mechanical amplifier", to activate a snap-action switch when the selected level of vibration is exceeded and the detecting mechanism "trips".

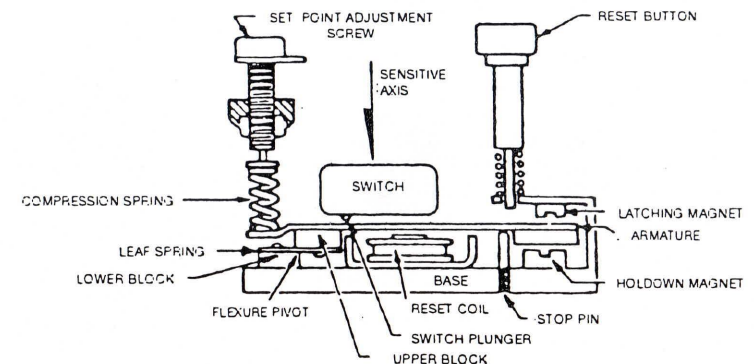


Figure 4-1. Operating Principle for the Vibraswitch, Model 365.