

APPLICATION

The Plasma Air Ion Sensor is designed to sense whether ions are present in a duct and close a contact if the ion density is above a specified value. The unit is installed on the side of the duct with the probe extending into the air-stream utilizing the mounting brackets provided. The Ion Sensor operates on 24V AC or 12 VDC. Terminals for dry contacts are provided to interface with the Building Automation System (BAS). The unit contains a set screw that can be field adjusted to increase or decrease the sensitivity to which the ions are sensed. The installer cuts a 1.5" diameter hole and inserts the probe. The unit is secured to the duct using the pre-drilled mounting brackets located at either side of the unit.

SPECIFICATIONS

Housing Material:ABS Plastic
Max. Operating Temperature: 200° F (93° C)
Electrical:
 Input Voltage 12V DC or 24V AC
 Frequency..... 50/60 Hz
Mounting: Side angle brackets
Pressure Drop:..... <0.05 " W.G.

Dimensions:..... See Figure 1
Ion Detection:..... LED and Closed Contact
Detection Range:500 - 20,000 ions/cm³
Detection Adjustability:.....User
Detection Polarity:..... Positive and Negative
Detection Limit:500 - 20,000,000 ions/cm³

Figure 1

