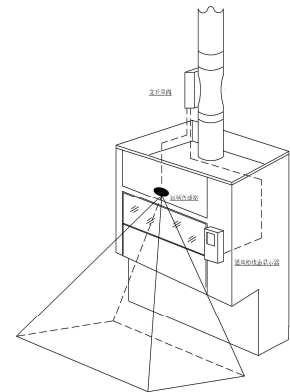


Introduction

JAD Smart Occupancy Status Detector OSD-7000 is part of the **JAD Smart Series Laboratory System** used in the fume hood exhaust system. The **OSD-7000** can save up to 40% of unnecessary conditioned air exhaust just by detecting the presence of user in front of the fume hood and sending a signal to the **SHC-5000 Smart Hood Control** to adjust the fume hood exhaust airflow.

JAD Smart Occupancy Status Detector OSD-7000 creates a detection zone in front of each individual fume hood, thereby only user using the particular fume hood will be detected. Whenever a user is detected in front of the fume hood, the **SHC-5000 Smart Hood Controller** will ensure a 0.5 m/s face velocity is maintain according to ASHARE 110-2006 standard. The **OSD-7000** couples with the **SHC-5000** lower the fume hood face velocity to 0.3 m/s whenever the fume hood is not in used thereby saving more than 40% of conditioned air exhaust. The energy saved through this simple control can be quite substantial as study shows that more than 80% of the time in a day, there is no user presence.

The **OSD-7000** can work in conjunction with the **ASC (Automatic Sash Closer)** to further reduce the unnecessary conditioned air exhaust by closing the sash automatically to its minimum height when no user is presence in front of the fume hood, thereby reducing the airflow required to maintain either a 0.5 m/s or 0.3 m/s fume hood face velocity.



Features

- Microwave radio energy detection technique
- LED status indicator
- Adjustable detection area
- Easy to install

Applications

OSD-7000 Occupancy Status Detection is suitable for all types of VAV fume hood and effective in lowering face velocity and auto sash closing controls.

- Provide user occupancy status
- Provide signal for face velocity control
- Provide signal for auto sash closing

Specifications

Detection	Doppler Principal	Temperature	-20°C - 55°C
Frequency	10.525 GHz	RH	90% RH, non condensing
Angle	Horizontal 120°, Vertical 80°	Power	12 – 24 VDC, 2W
Detection area	Maximum 4m (Width), 3m (Depth)	Indication	Red (Close), Green (Open)
Detection Type	Motion	Output	Dry Contact
Connection	Open cover to terminate	Ext Material	Silver ABS Plastic
Field Adjust	Open cover to adjust	Ext Dimension	115 (W) x 90 (H) x 60 (D) mm