

Life Safety Test Inc.

2323 Setterlin Dr.
Columbus, Ohio 43228

Installation / Operation instructions for a DSDS (Duct Smoke Delivery System) Device

General Information:

The DSDS is manufactured and intended for indoor use only. The DSDS, if used on the supply side or positively pressured duct, will require a pump to inject the smoke or aerosol into the air stream. The DSDS is to be used on duct smoke detectors installed in accordance with the manufactures instructions. **Improper installation of duct smoke detectors and/or the DSDS may result in failed operation of the DSDS test process. Plenum rated hose must be used where required by code.**

DSDS Installation:

- 1) Locate the sampling tube of the duct smoke detector and determine the air flow direction. Measure 12" upstream of the sampling tube and place a mark on the same plane as the sampling tube. *(Figure 1)*
- 2) Drill a 1-5/8" hole at the above measured mark ensuring the hole is on the same plane as the sampling tube. Use a straight edge if necessary to be on plane. *(Figure 1)*
- 3) Attach the 4' orange tubing into the orange connector on the DSDS nozzle provided. Ensure the tubing is securely attached to the orange DSDS nozzle connector. *(Figure 2)*
- 4) Insert the copper nozzle into the 1-5/8" hole drilled earlier so that the mounting plate is flat against the duct work. Secure it with #6x32 self tapping screws. If there are any gaps around the mounting plate, cover with duct tape. (Use plenum duct tape where required by code.)
- 5) At the end of the orange hose opposite the DSDS nozzle, securely fasten the white cap labeled "Duct Smoke Test Port to the threaded connector.

Entry Port Finish Plate Installation:

- 1) Ensure there is enough tubing to comfortably reach the desired location. It is recommended to mount entry port finish plate on the ceiling or wall no less than 80" above the finished floor as near to the duct detector alarm LED as possible.

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- 2) At the identified ceiling or wall mounting location, cut a single gang hole to fit an old work single gang device ring. (Carlton part # SC100A or similar)
- 3) From above the ceiling or from behind the wall, feed the entry port of the orange hose through the device ring opening. Thread the white finish plate onto the orange entry port connector and mount the finish plate to the device ring.

DSDS Testing operation:

- 1) Remove white entry port cap. Spray the approved aerosol or smoke into the entry port until the duct detector indicates an alarm response.
- 2) Make sure to place white entry port cap back on entry port when duct smoke detector test is complete.

Notes:

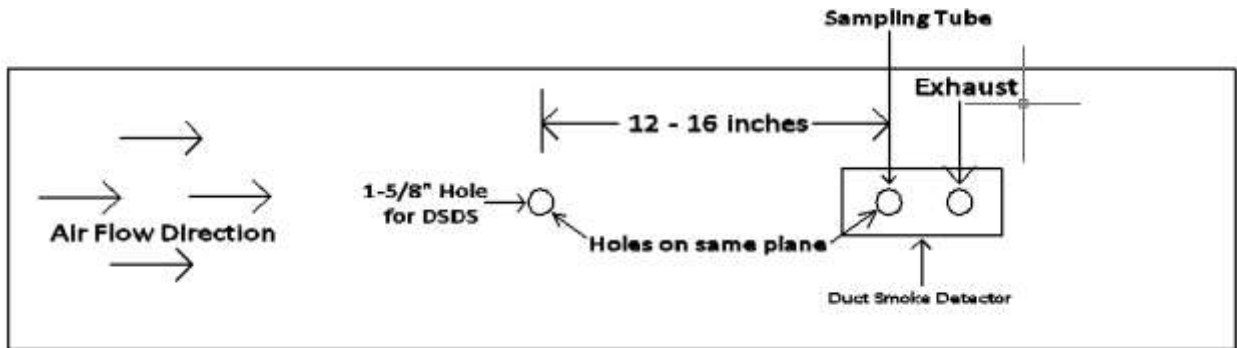
Refer to installation illustrations on page 3 for detailed drawings.
When testing fire alarm systems always make sure the system is on test with the monitoring company!

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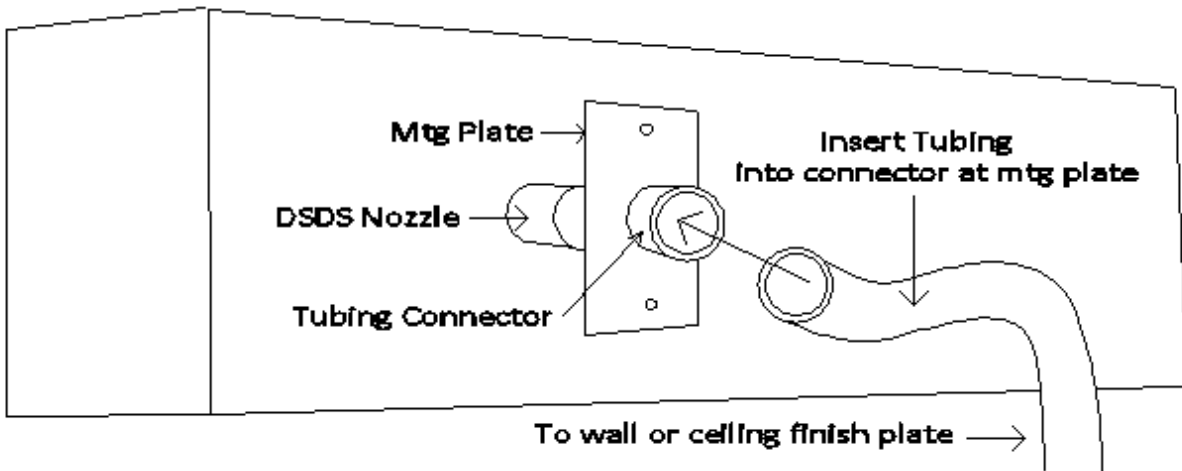
DSDS Installation Reference Drawing Details

Figure 1



Mounting hole alignment to sampling tube

Figure 2



DSDS Nozzle and hose mounting

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DSDS Installation Reference Drawing Details

Figure 3

