

Cautions, Warnings, and Regulatory Information

READ AND SAVE THESE INSTRUCTIONS Follow the instructions in this installation manual. These instructions must be followed to avoid damage to this product and associated equipment. Product operation and reliability depend upon proper installation.



DO NOT INSTALL ANY AUTOCALL™ PRODUCT THAT APPEARS DAMAGED Upon unpacking your Autocall product, inspect the contents of the carton for shipping damage. If damage is apparent, immediately file a claim with the carrier and notify an authorized Autocall product supplier.



ELECTRICAL HAZARD Disconnect electrical field power when making any internal adjustments or repairs. All repairs should be performed by a representative or an authorized agent of your local Autocall product supplier.



CAUTION - This product is designed to protect a smoke sensor from vandalism. It is not designed to protect people from intentionally causing harm to themselves. Please use caution when installing this device in detention facilities, hospitals, or other residential or highly trafficked locations.

NFPA Information

Per NFPA Section 2-1.3.1 (1999 Edition): "Where subject to mechanical damage, an initiating device shall be protected. A mechanical guard used to protect a smoke or heat detector shall be listed for use with the detector being used."

Maintenance

The presence of debris on the sensor vandal guard will significantly restrict airflow into the sensor. It is recommended that increased visual maintenance be performed to ensure proper operation.

Overview

This publication shows how to install the A4098-9846 TrueAlarm Sensor Vandal Guard. The sensor guard is a device that is mounted on a wall or ceiling to provide protection for a A4098-9714 Smoke Sensor, a A4098-9733 Heat Sensor, or a A4098-9754 Photo/Heat Sensor.

WARNING:

- Use only a **A4098-9714 Sensor, a A4098-9733 Heat Sensor, or a A4098-9754 Photo/Heat Sensor.**
- Refer to **2120 Job Configuration Report or Custom Control Equation Listing in the 4010, 4020, or 4100 Programmer's Report to verify the sensitivity range is between 0.5% to 1.5% per foot obscuration.**

Installation procedure

1. Seal the electrical box using 3M ® Weatherban #606 or equivalent.
2. Use the appropriate template to drill holes for appropriate anchoring per local building codes.
 - Use Figure 2 if you are flush mounting with the mounting frame.
 - Use Figure 3 if you are surface mounting with the A4098-9847 Extension Box.
3. Install the sensor and base.
 - The installed sensor base must be a A4098-9789, A4098-9791, A4098-9792, or A4098-9793, A4098-9777, A4098-9766, A4098-9767.
 - Refer to *A4098 Smoke/Heat Sensor Bases Installation Instructions (574-707AC)* when installing sensor bases.

Flush Mount Electrical Box

- a. Secure the sensor guard mounting frame to the wall or ceiling using 1/4-inch (minimum) diameter hex-head bolts with lead expansion shields or toggle bolts (not supplied). Avoid plastic shields.

Surface Mount Electrical Box

- a. Secure the A4098-9847 Extension Box to the wall or ceiling using 1/4-inch (minimum) diameter hex-head bolts with lead expansion shields or toggle bolts (not supplied). Avoid plastic shields.
- b. Secure the sensor guard mounting frame to the extension box using 1/4-inch diameter hex-head bolts (not supplied).
4. Place the sensor guard cover in the mounting frame.
5. Secure the cover to the frame using four 10-32 x 1/2-inch long, button-head hex with center pin screws (supplied).

Important: DO NOT paint the sensor guard.



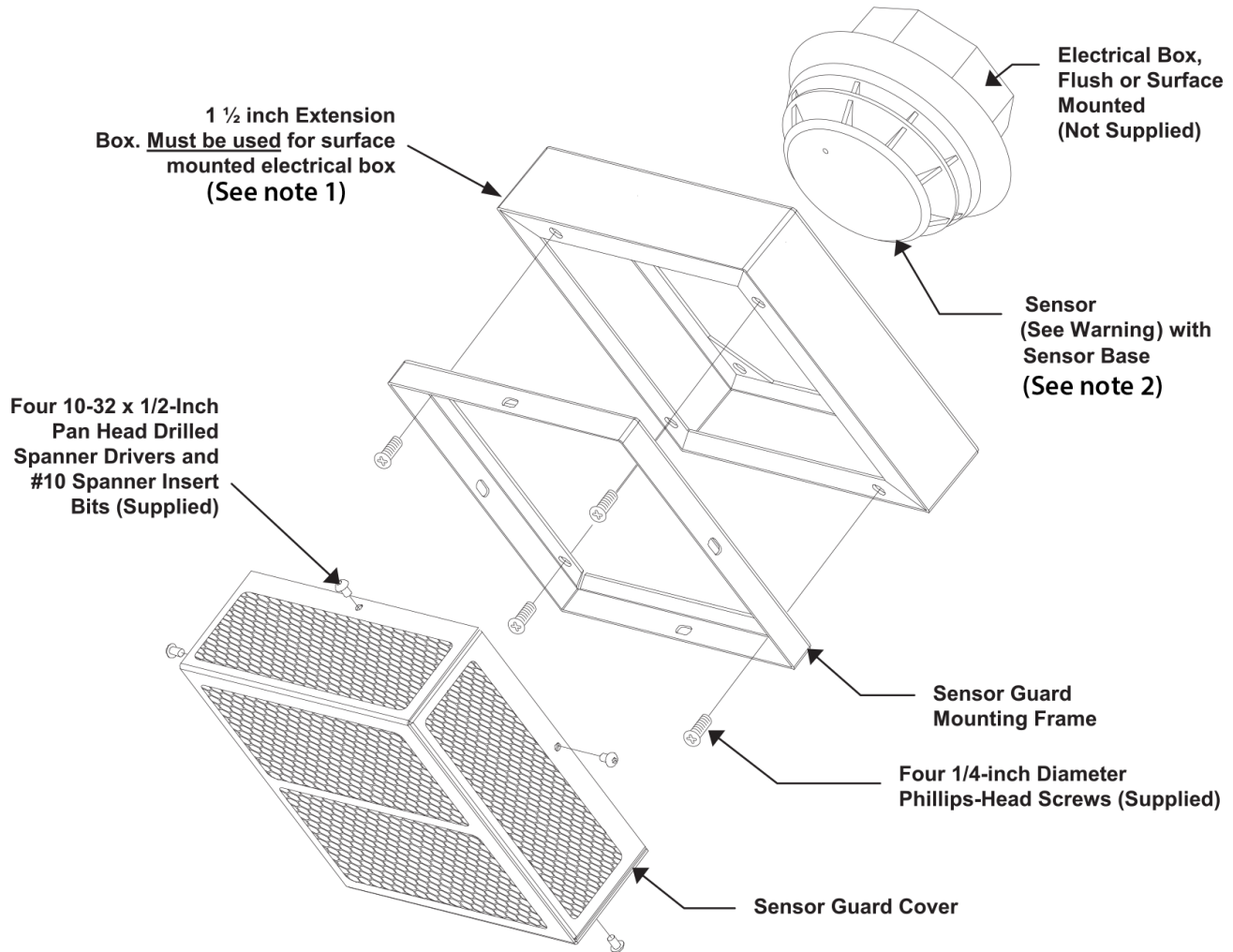


Figure 1: Installing the Sensor Guard with a A4098-9789, A4098-9791, A4098-9792, or A4098-9793, A4098-9777, A4098-9766, A4098-9767 sensor base

Note:

1. Figure shows A4098-9847 1½ inch extension box.
2. Figure shows a A4098-9714 sensor with a A4098-9789, A4098-9791, A4098-9792, or A4098-9793, A4098-9777, A4098-9766, A4098-9767 sensor base.

Maintenance and Testing

Autocall recommends routine cleaning of the smoke sensor and guard so that dust and other matter does not accumulate. Refer to the *A4098 Detectors, Sensors, and Bases Application Manual*(574-709AC) for details.

Important: The strength of final installation requires heavy, solid anchoring. The flush-mounted electrical box must be installed even to the surface or be recessed 1/4-inch (maximum). If the electrical box is surface mounted, the A4098-9847 Extension Box *must* be used.

Use the figures on the next pages as templates when you are mounting the sensor guard.

- Use Figure 2 for flush mount applications.
- Use Figure 3 for surface mount applications.

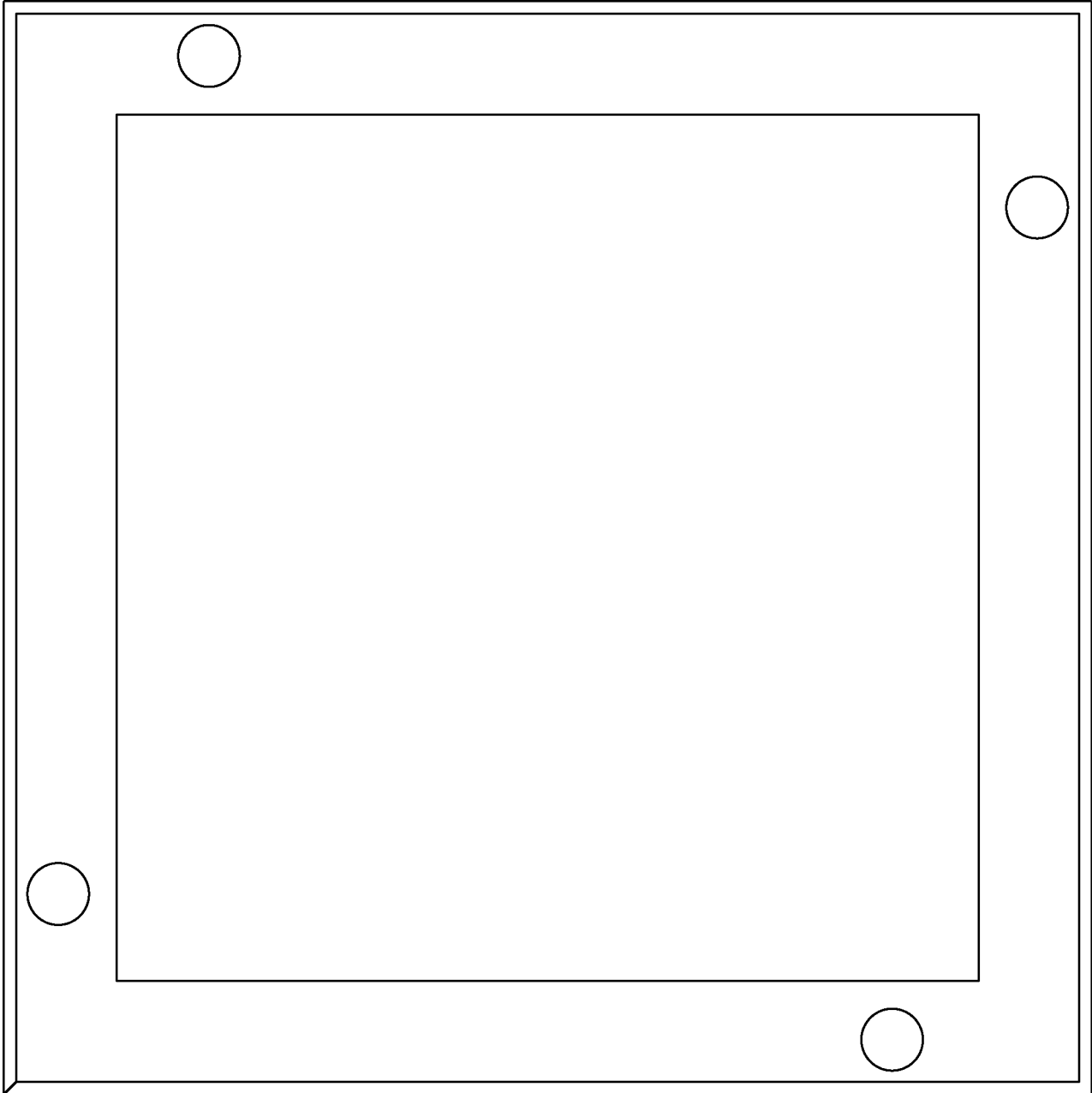


Figure 2: Sensor Guard Mounting Frame Template (Flush Mounting)

WARNING: Do not photocopy this figure. Use the original figure as a template.

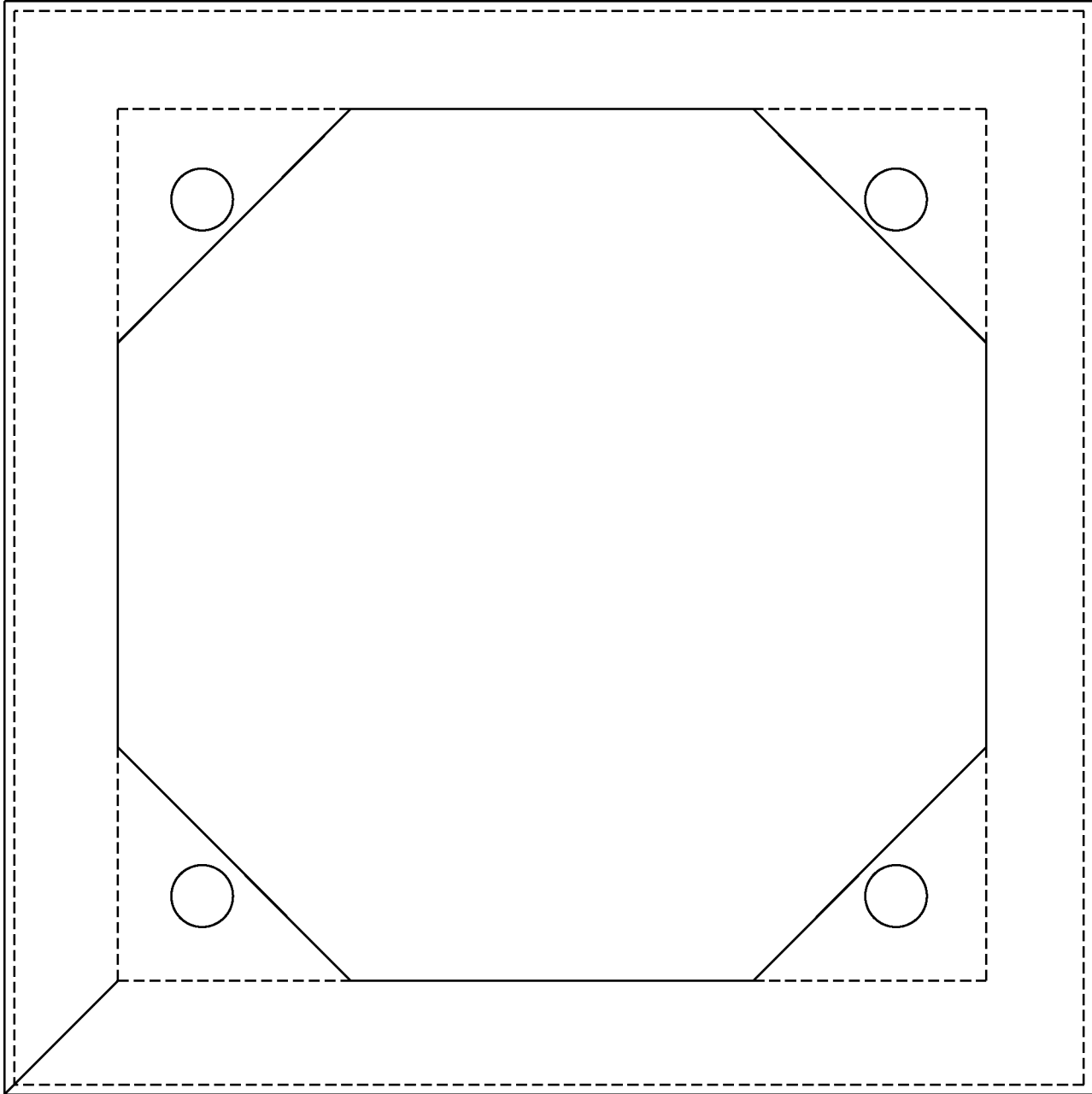


Figure 3: A4098-9847 Extension Box Mounting Template (Surface Mounting)

WARNING: Do not photocopy this figure. Use the original figure as a template.