

**Features****Compatible Simplex® TrueAlarm sensors and bases (ordered separately):**

- 4098-9714, Photoelectric sensor
- 4098-9754, Multi-Sensor, Photoelectric and Heat
- 4098-9733, Heat Sensor
- 4098-9792, Standard Sensor Base
- 4098-9791, Relay Control Base
- 4098-9789, LED Output Base
- 4098-9793, IDNet Isolator Base

**General features:**

- For ceiling or wall mounted sensor applications
- Combines accurate, individually addressable analog smoke and/or heat sensing with physical protection
- TrueAlarm analog sensing provides compensation for air flow restriction by providing maintained high sensitivity
- Photoelectric smoke sensitivity is selectable from 0.5 to 1.5%/ft at the fire alarm control panel
- The host control panel automatically compensates for sensitivity shifts caused by contamination and automatically reports dirty devices
- UL listed to Standard 268 (URRQ) and 521 (UQKE)
- ULC listed to Standard S529 (URRQC) and S530 (UQKEC)

**Mounting options:**

- Standard mounting of 4098-9846 is for use with flush mounted electrical boxes
- Extension box 4098-9847 is required for mounting to surface mounted electrical box

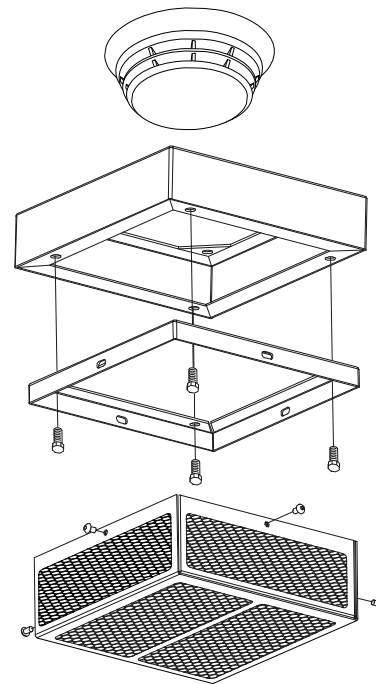
**Tamper resistant design:**

- Heavy duty steel construction, single wall
- Tamper resistant grill mounting screws

**Description**

**Sensor Guard 4098-9846** combines the sensitivity and maintained accuracy of Simplex TrueAlarm sensors with a rugged, tamper resistant enclosure. Typical applications are: Correctional/Detention facilities, Mental Hospitals, Industrial areas, Educational facilities, Dormitories, and many other locations where the smoke sensor may be intentionally or accidentally subjected to abuse.

**Location Reference.** With this combination, the sensor can be located directly in the ceiling of a detention cell or similar area and can provide accurate and quick sensing of smoke and/or heat conditions. Additionally, after removing the tamper resistant hardware, the sensor is readily accessible for cleaning when the TrueAlarm system automatically identifies the need for maintenance.



4098-9846 TrueAlarm Sensor Guard Mounting Reference  
(ceiling mount shown with optional surface mount extension, see page 2 for details)

**Specifications**

Dimensions	Refer to page 2
Grill Material	Single wall construction, 22 gauge steel (0.025" thick, 0.64 mm)
Perforation Pattern	1/4" (6.4 mm) hex holes staggered on 1/4" (6.4 mm) centers, reinforced at corners
Color/Finish	Tan, baked enamel
Mounting Frame Hardware	Bolts, 1/4", see page 2
Grill Mounting Screws	Four tamper resistant screws, recessed hex head, supplied with guard
Screw Removal Tool	4098-9823 Secure Hex Key, ordered separately

**Additional Reference:**

Product	Data Sheet
TrueAlarm Sensors and Bases	S4098-0019
Multi-Sensor 4098-9754	S4098-0024
TrueAlarm IDNet Isolator Base	S4098-0025
Sensor Guard for flush mounted electrical box, ceiling mount only	S4098-0027

\* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7300-0026:244 for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. This product was not approved by FM as of document revision date. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

## Mounting Information – IMPORTANT – See Warning and Installation Notes Below

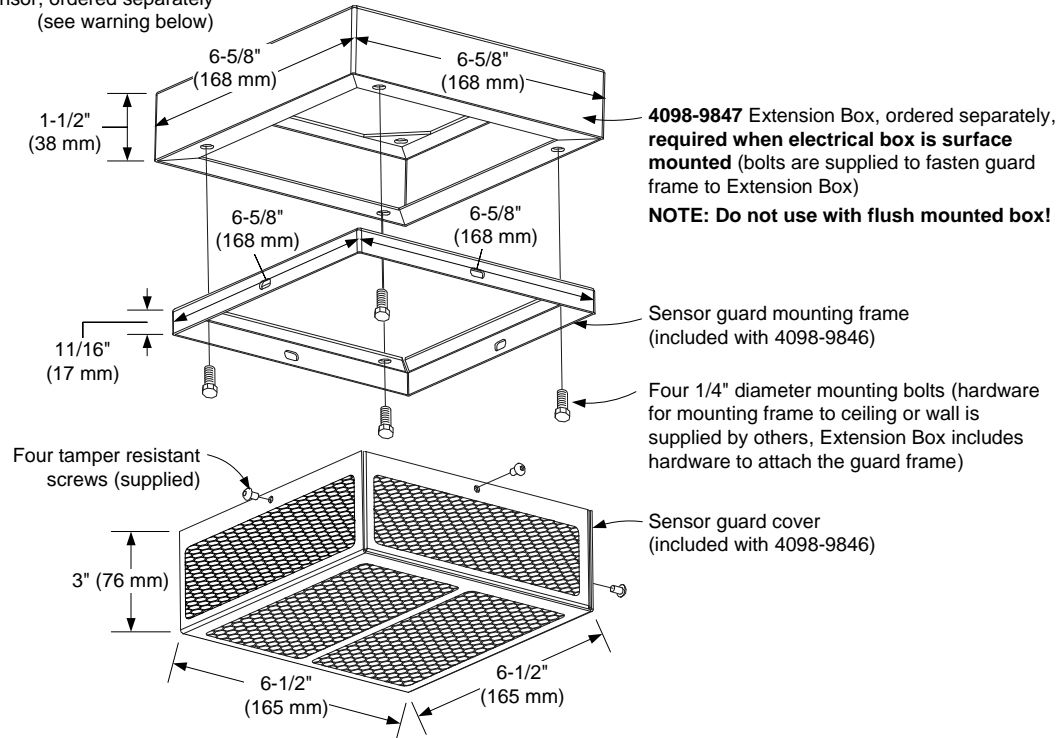
Electrical box, 4" square or 4" octagonal (supplied by others), see installation notes below for additional box information

Seal box using 3M Weatherban #606 or equal

**4098-9714** Photoelectric Sensor, **4098-9754** Multi-Sensor, or **4098-9733** Heat Sensor, ordered separately (see warning below)

**4098-9832** Adapter Plate, ordered separately, required when electrical box is surface mounted

Sensor base 4098-9789, 4098-9791, 4098-9792, or 4098-9793, ordered separately, see installation notes for additional information



### WARNING !

Per NFPA 72, the *National Fire Alarm and Signaling Code*, Section 5.4.3 (2007 Edition): "Where subject to mechanical damage, an initiating device shall be protected. A mechanical guard used to protect a smoke, heat, or radiant energy-sensing detector shall be listed for use with the detector." **Sensor guard 4098-9846 is for use only with a Simplex 4098-9714 Photoelectric Sensor or a 4098-9754 Photo/Heat Sensor with a restricted sensitivity range of 0.5 to 1.5% per foot obscuration; or with a 4098-9733 Heat Sensor; and for use only with sensor bases 4098-9789, 4098-9791, 4098-9792, or 4098-9793.** This will ensure the sensor will activate within the UL listed obscuration range when mounted in the sensor guard.

**PLEASE NOTE:** For proper performance, follow installation instructions and review sensor and guard locations carefully. Wall mounting may not be appropriate for institutional or detention applications.

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

### Installation Notes

1. For additional information, refer to Installation Instructions 579-116.
2. Ceiling mount is shown above for reference, if appropriate, installations can be wall mounted.
3. Flush mounted electrical box must be flush to surface or recessed **no more than 1/4"** (6.4 mm). Select box depth to accommodate selected base options.
4. For surface electrical box mounting only, Extension Box 4098-9847 and Adapter Plate 4098-9832 are **both required** (ordered separately). Electrical box must be 1-1/2" deep. **NOTE: Do not use Extension Box 4098-9847 with FLUSH mounted electrical boxes, sensor will not be properly positioned.**
5. Installation to wall or ceiling requires solid anchoring, use 1/4" bolts (by others). Hardware is included with the 4098-9847 Extension Box for mounting the sensor guard frame.

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