

Model 885-WP Weatherproof Heat Detector

SPECIFICATIONS

Diameter:	102.5 mm (4.04 inches)
Height (including mounting bracket):	47.5 mm (1.87 inches)
Weight (including mounting bracket):	142 g (5.0 ounce)
Operating Temperature Range:	-10°C to 50°C (14°F to 122°F)
IP Rating:	IP66
Sensitivity:	60°C (140°F) Fixed Temperature with Rate-of-Rise
Operating Voltage:	8.5VDC to 35VDC
Standby Current:	≤140µA
Alarm Current:	10mA ~130mA (Controlled by panel and current limiting resistor)
Latching Alarm:	≤5s
Software Ver.:	A
Standard:	AS 7240.5—2004
Type:	A2R

BEFORE INSTALLING

Please thoroughly read System Sensor manual which provides detailed information on detector spacing, placement, zoning, wiring, and special applications. Copies of this manual are available at no charge from System Sensor.

NOTICE: This manual shall be left with the owner/user of this equipment.

IMPORTANT: This detector must be tested and maintained regularly in accordance with the requirements of the local standards and regulations. The detector should be cleaned at least once a year.

GENERAL DESCRIPTION

Model 885-WP is a 2-wire rate-of-rise with fixed temperature (60°C) heat detector. This detector is designed to provide open area protection in areas subject to moisture. This detector is sealed against the entry of moisture to a rating of IP66. The LED will latch on when the detector is in alarm.

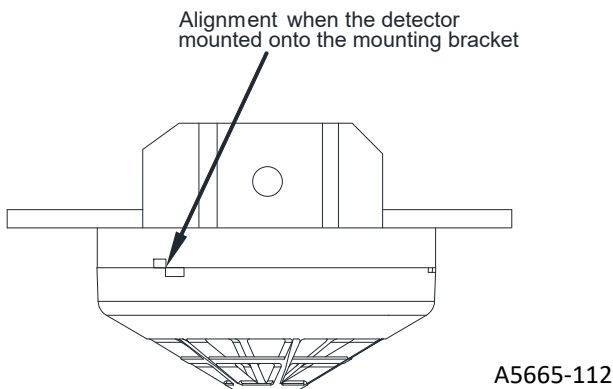
MOUNTING

Each 885-WP detector is supplied with a mounting bracket that permits the detector to be mounted directly to the ceiling or to a junction box.

Tamper-resistant Feature

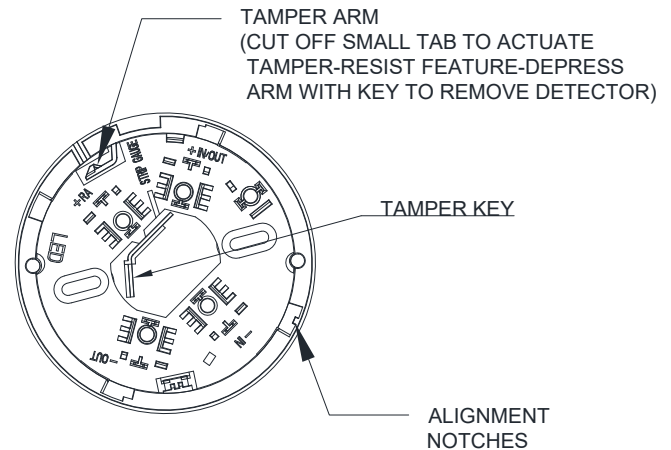
This detector includes a tamper-resistant feature that prevents its removal from the mounting bracket without the use of a key. To make the detector tamper-resistant, remove the tab from the tamper arm on the mounting bracket using a cutting tool. Remove the tamper key from the center of the mounting bracket by twisting it back and forth several times (see Figure2). Once the detector is installed, it may be removed from the mounting bracket by inserting the T-shaped end of the key into the slot on the side of the unit and rotating the detector counter-clockwise.

Figure1. Surface mounting of the 885-WP weatherproof heat detector into a 50/60 mm junction box.



NOTE: Please dispose electronic waste following national or local regulations after being scrapped or replaced. Do not discard.

Figure2. Module 885-WP weatherproof Heat Detector Mounting bracket



Wiring Installation Guidelines

This detector provides six wires which are divided into three groups, separately two red, two white and two black wires. Refer to Figure 4.

Terminal Notes:

- Red wire: Power / Detector Circuit +ve
- Black wire: Power / Detector Circuit -ve (the power and the LED use the same cathode)
- White wire: Remote LED +ve

Wiring Diagram refers to Figure 4.

Remove power from the communication line before installing detector.

1. Connect the wires to power wiring as per the wiring diagram, see Figure 4.
2. The wiring connections must be prevented from water, see figure 3.

INSTALLATION

NOTE: All wiring must conform to applicable local codes, ordinances, and regulations.

NOTE: Verify that all detector mounting brackets are installed, that the initiating-device circuits have been tested, and that the wiring is correct.



Remove power from initiating-device circuits before installing detectors.

1. Secure mounting bracket to the roof or ceiling.
2. Push the detector into the mounting bracket while turning it clockwise to secure it into place. Connect the wires to power wiring in junction box, see Figure 3.
3. After all detectors have been installed, apply power to the control unit or initiating-device circuits.

4. Test the detector as described in the TESTING section of this manual.
5. Reset the detector at the system control panel.
6. Notify the proper authorities the system is in operation.

TESTING

NOTE: Before testing, notify the proper authorities that the thermal detector system is undergoing maintenance and will temporarily be out of service. Disable the zone or system undergoing maintenance to prevent unwanted alarms.

Detectors must be tested after installation as well as after each time maintenance is performed.

Test the 885-WP as follows:

A. Test Magnet:

1. Place the magnet against the cover in the magnet test area as shown in Figure 4 to activate the test feature.
2. The LED should latch ON within 10 seconds, indicating alarm and annunciating the panel.
3. Reset the detector at the system control panel.

B. Direct Heat Method

You need a hair dryer. From the side of the detector, direct the heat toward the sensor. Hold the heat source about 15 cm away to prevent damage and apply heat to the cover during testing until it alarms. A detector that fails these tests should first be cleaned as outlined in the Maintenance section which follows. If the detector still fails, it should be returned for repair.

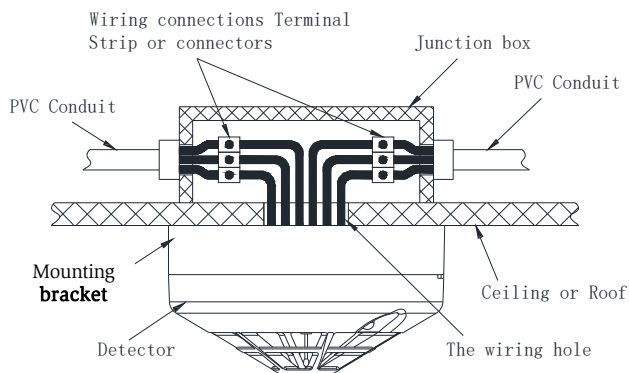
Notify the proper authorities when the system is back on line.

MAINTENANCE

NOTE: Before removing the detector, notify the proper authorities that the smoke detector system is undergoing maintenance and will temporarily be out of service. Disable the zone or system undergoing maintenance to prevent unwanted alarms.

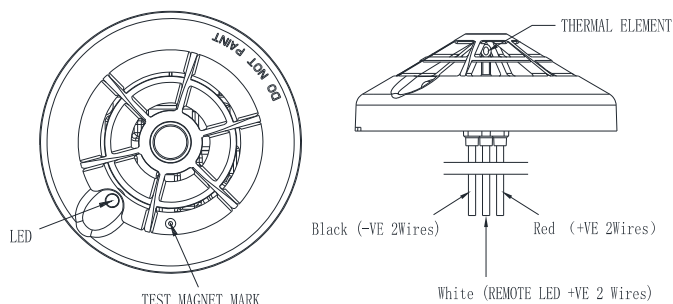
1. Disconnect the wires from power wiring in junction box, see Figure 3.
2. Remove the detector from the mounting bracket by rotating it counter-clockwise.
3. Vacuum the surrounding of the thermistor.
4. Clean the surface of the detector.
5. Reinstall the detector.
6. Test the detector as described in Testing.
7. Notify the proper authorities the system is back in operation.

Figure 3. Field Wiring Diagram



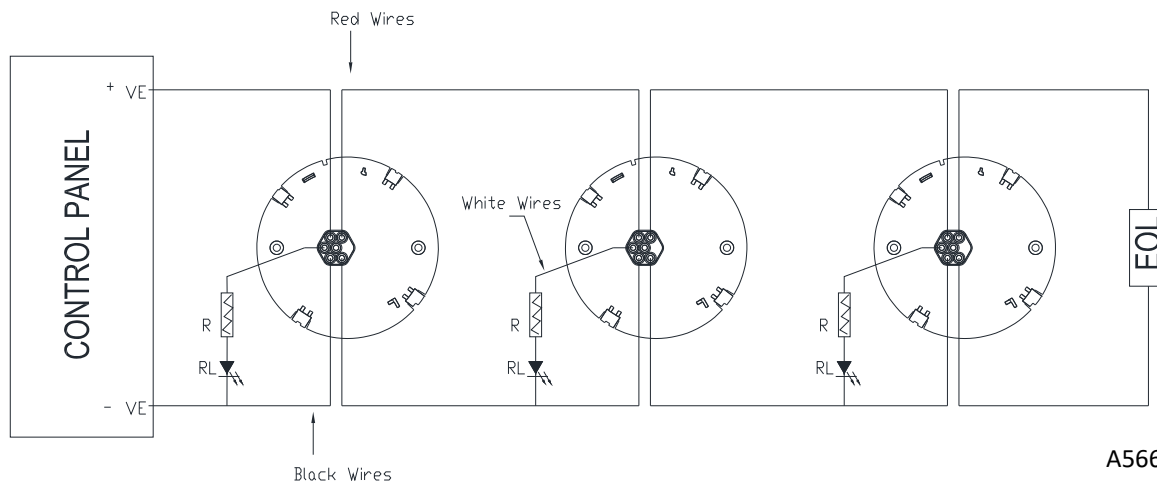
A5665-114

Figure 4



A5665-115

Figure 5.



A5665-116

Please refer to insert for the Limitations of Fire Alarm Systems

THREE-YEAR LIMITED WARRANTY

System Sensor warrants its enclosed smoke detector to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. System Sensor makes no other express warranty for this smoke detector. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the smoke detector which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. Contact your local System Sensor representative for

issuing of a Return Authorization Number (RA#) before returning the defective units. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault.