800 Series Low-Profile Plug-in Smoke/Heat Detectors

SYSTEM SENSOR®

881

882

885

Models Available

881 Ionization Detector
882 Photoelectronic Detector
885 Heat Detector

General Description

The 800 series are 2-wire conventional low profile plug-in detectors designed to meet the performance criteria designated by UL. It is a low cost and high reliability series. A LED will be latched on to locally indicate alarm. The in (-) and out (-) terminals are short-circuited inside the detectors. When the detector is mounted , it will continue the wire to the next device or EOL resistor. When it is removed, the wire will be open for wiring supervision.

881 Model 881 is a 2-wire conventional ionization smoke detector that uses a state-of-the-art sensing chamber. These detectors are designed to provide open area protection and to be used with compatible UL listed panels only.

882 Model 882 is a 2-wire conventional photoelectronic smoke detector that use a state-of-the-art optical sensing chamber. This detector is designed to provide open area protection and to be used with compatible UL listed panels only.

885 Model 885 is a 2-wire conventional fixed temperature heat detector. These detectors are designed to provide open area protection and to be used with compatible UL listed panels only.

The 800 series are UL listed.

Specifications

Size

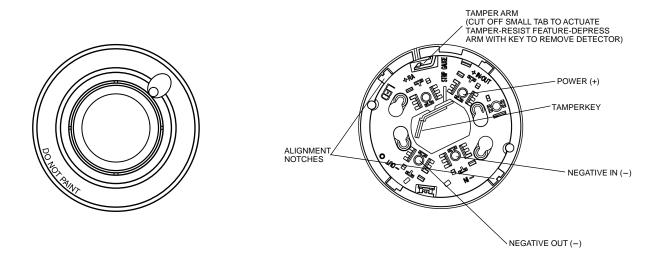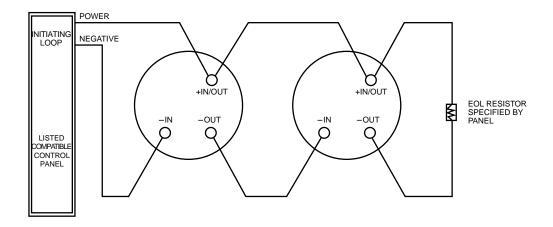|	
Height (With base):	5.5 cm (Ionization), 4.8cm (Heat), 5.0cm (Photoelectronic)
Diameter:	10.2 cm
Operating Temperature Range:	32°F to 100°F (0°C to 38°C) for heat, 32°F to 120°F (0°C to 49°C) for Ionization, photoelectronic
Operating Humidity Range:	5%-95% RH
Latching Alarm:	Reset by momentary power interruption
Max Air Velocity:	4000ft/min (Photoelectronic), 2000ft/min (Ionization)
Operating Voltage:	15 ~ 30VDC
Standby Current:	≤ 50 μA
Alarm Current:	min 2mA @ 3.1VDC max 80mA @ 6.5VDC
Maximum Ripple Voltage:	4 Volts peak to peak
Sensitivity:	145°F (63°C) heat only

UL®

A05-111-02C

This document is not intended to be used for installation purposes.

Mounting Bracket For 800 Series Detector

TAMPER ARM
(CUT OFF SMALL TAB TO ACTUATE
TAMPER-RESIST FEATURE-DEPRESS
ARM WITH KEY TO REMOVE DETECTOR)

DO NOT PAINT

POWER (+)

TAMPERKEY

ALIGNMENT
NOTCHES

NEGATIVE IN (−)

NEGATIVE OUT (−)

Wiring Diagram For 800 Series Detector

INITIATING
LOOP

POWER

NEGATIVE

LISTED
COMPATIBLE
CONTROL
PANEL

+IN/OUT

−IN

−OUT

+IN/OUT

−IN

−OUT

EOL RESISTOR
SPECIFIED BY
PANEL

System Sensor Worldwide Manufacturing & Distribution