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

SYSTEM SENSOR®

Models Available

882 Photoelectronic Detector
885 Heat Detector

882

885

General Description

System Sensor's 800 series detectors are 2-wire conventional profile plug-in detectors aimed to meet the performance criteria designated by UL. The design for these detectors emphasizes economical and highly reliable. A LED will latch on when the detector is in alarm to provide a local alarm signal. 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.

The new model 882, a 2-wire conventional photoelectric smoke detector, that uses a state of the art optical sensing chamber, has a remote LED connecting feature. This detector is designed to provide an open area protection and to be used with compatible UL listed panels.

The model 885, a 2-wire conventional fixed temperature heat detector, is also designed to provide an open area protection and to be used with compatible UL listed panels.
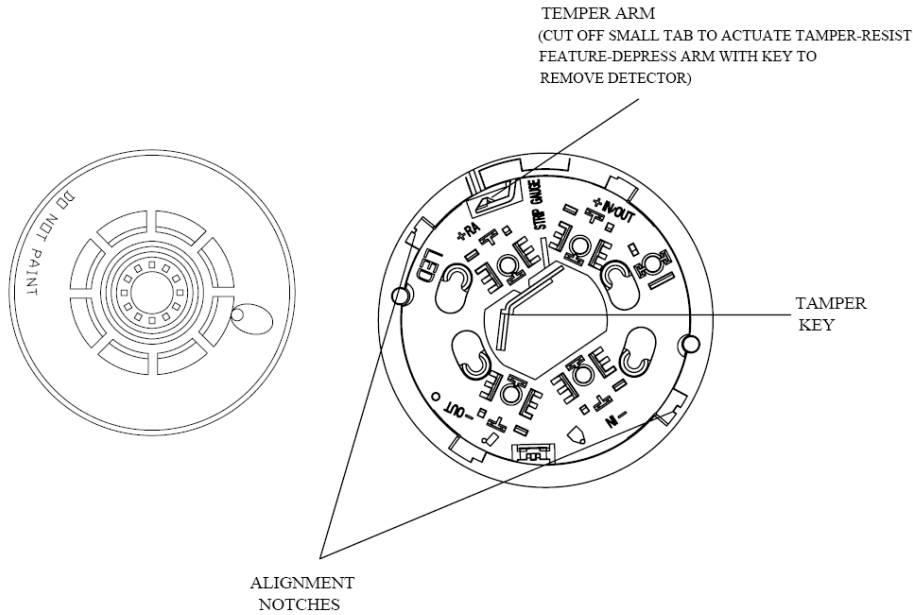
Specifications

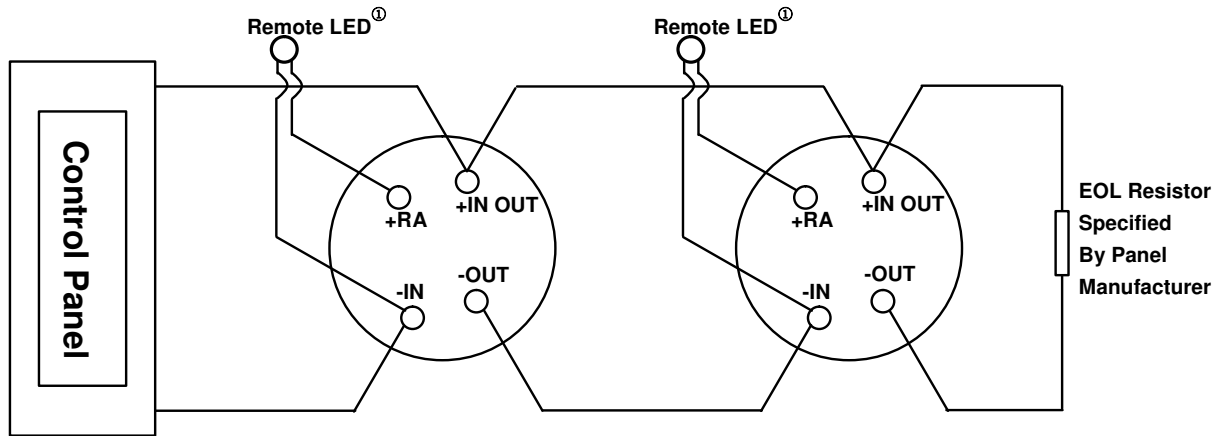|	
Diameter:	10.2 cm (4")
Height(including base):	4.8 cm (1.8") for Heat
	5.0cm(2.0") for Photoelectronic
Operating Temperature Range:	0~38°C (32°F to 100°F) for Heat
	0~49°C (32°F to 120°F) for Photoelectronic
Operating Humidity Range:	10% to 93%Relative Humidity, Non-condensing
Max. Air Velocity:	20m/s (Heat only)
Latching Alarm:	Reset by momentary power interruption
Sensitivity:	63°C (145.4°F) Fixed (Heat only)
Operating Voltage:	8.5~30 VDC for Heat
	8.5~35 VDC for Photoelectronic
Standby Current:	≤50µA for Heat
	≤90µA for Photoelectronic
Alarm Current:	Min. : 2 mA for Heat ; 10mA for Photoelectronic
	Max. : 80 mA for Heat ; 130mA for Photoelectronic

Agency Listing

UL®

Mounting Bracket for 800 Series Detector

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

DO NOT PAINT

STRIP GAUGE

+RA

+IN/OUT

LED

-IN

-OUT

TAMPER
KEY

ALIGNMENT
NOTCHES

Wiring Diagram For 800 Series Detector

Remote LED[1]

Remote LED[1]

Control Panel

+RA

+IN OUT

-IN

-OUT

+RA

+IN OUT

-IN

-OUT

EOL Resistor
Specified
By Panel
Manufacturer

Note：

① **For 882： If Remote LED is not used, +RA terminal should be free and polarity of these terminals may be reversed.**

For 885： +RA terminal should be free and polarity of these terminals may be reversed.

Ordering information

Detector	Product Description	Photo	Thermal	Wiring	Alarm Current
882	Photoelectronic Detector	Yes	No	2-Wire	10mA~130mA
885	Heat Detector	No	Yes	2-Wire	2mA~80mA
B801	Detector Base	NA	NA	NA	
B801RA	Detector Base	NA	NA	NA	

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