



Photo Electric Smoke and Heat Detector Head

FW2531



DESCRIPTION

The FW2531 is an intelligent Smoke and Heat Detector used with the FW2501/FW2502/FW2509 Detector Bases, is a UL/ULC listed device according to UL 268 7th and UL 521 for Fire Protective Signaling Systems for indoor use. It features a slim and low-profile design that combines visual appeal with a high standard of reliability. It responds quickly and dependably to a broad range of fires. The detector has a Microcontroller Unit (MCU), performing comprehensive self-diagnostic tests and result analysis. The FW2531 is intelligent, addressable, and takes one address on the Signaling Line Circuit (SLC) of the fire alarm control panel.

Compatible Bases

FW2501

FW2502

FW2509



FW2501 Detector Base with Remote Output Terminals, 4-inch

FW2502 Detector Base with Remote Output Terminals, 6-inch

FW2509 Sounder Base, Power by both external 24VDC and 2-wire SLC

ATTENTION

Products must be installed per the National Fire Alarm Code, NFPA 72 and/or National Electrical Code, depending on the country of the installation. Check the information on equipment used in the system from other manufacturers for instructions and restrictions. The detector should never be installed in the following places: where there is a lot of exhaust gas, kitchens, near fireplaces, boilers, etc. Smoke detectors should not be used with detector guards unless the suit has been evaluated and approved for this case.

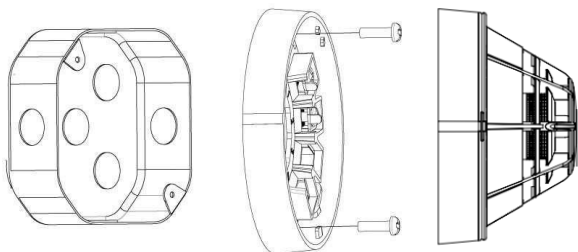
NOTE

Do not paint this unit.

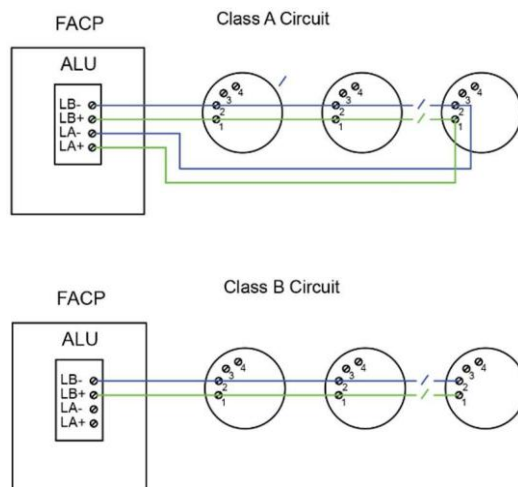
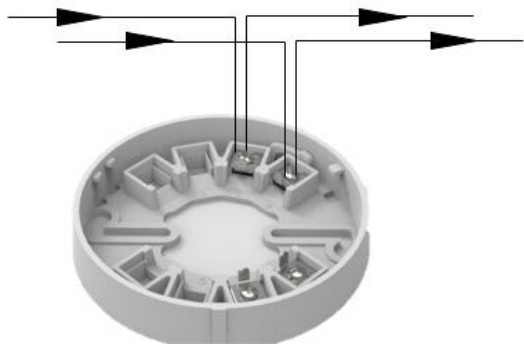
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INSTALLATION

Mount the FW2501 base onto a 2x4" electrical box, see Figure 1. The installation hole pitch illustrated



Bases can be used with 12 AWG to 18 AWG wires.



SPECIFICATION

FW511	
Nominal Voltage	24 VDC
Voltage Range	15 to 28 VDC
Standby Current	0.16 mA
Alarm Current	1 mA
Smoke Sensitivity	1.5% / ft to 2.7% / ft
Operating Temperature	32°F to 120°F (0°C to 49°C)
Operating Humidity	0% to 93% RH, Non-Condensing
Diameter	4.13 in. (105mm)
Height (with base)	2.44 in. (62mm)
Weight (with base)	4.94 oz (132g)
Mounting	FW2501/FW2502/FW2509
Mounting Orientation	Ceiling/Wall
Spacing	30 feet (9.1 M)

CATALOG NUMBER TO ORDER

Model	Description
FW2531	Photoelectric smoke and heat detector
FW2501	Detector Base with Remote Output Terminals, 4-inch
FW2502	Detector Base with Remote Output Terminals, 6-inch
FW2509	Sounder Base, Power by both external 24VDC and 2-wire SLC