NOTIFIER®

FAPT-751
Acclimate Plus™ Multi-Sensor
Low-Profile Intelligent Detector
Section: Intelligent/Addressable Devices

GENERAL

The NOTIFIER **FAPT-751 Acclimate Plus™** detector is an intelligent, addressable, multi-sensing, low-profile detector designed for use on the NOTIFIER AFP-300, AFP-400, AFC-600 (classic mode only), ONYX™ Series NFS-640 and NFS-3030 (classic or FlashScan® modes), AFP1010, and AM2020 Fire Alarm Control Panels.

The Acclimate Plus™ detector uses a combination of photo-electric and thermal sensing technologies that are designed to increase immunity to false alarms. Unlike traditional intelligent detectors, the Acclimate Plus™ detector has a microprocessor in the detector head that processes alarm data. As a result, the Acclimate Plus™ detector adjusts its sensitivity automatically, without needing operator intervention.

Areas where the Acclimate Plus™ detector is especially useful include office complexes, schools, college campuses, manufacturing and industrial facilities, and anywhere else the use of a particular area may change. One day a conference room, tomorrow a kitchen, the next day a copy machine room — the Acclimate Plus™ detector automatically adjusts its sensitivity to the environment!

FEATURES

- Automatically adjusts sensitivity levels without the need for operator intervention or programming. Sensitivity increases with heat.
- Combination photo and thermal technology.
- Microprocessor-based technology.
- FlashScan® (NFS-640 and NFS-3030) and classic system (NFS-640, NFS-3030, AFP-300, AFP-400, AFC-600, AFP1010, and AM2020) compatible.
- Sleek, low-profile design.
- Rotary, decimal addressing (1 – 99 on current classic systems, 1 – 159 on FlashScan® systems).
- Addresses can be viewed and changed without the need for electronic programmers.
- Dual bi-color LED design provides 360° viewing angle.
- In FlashScan®, LEDs flash GREEN in Standby for normal condition.
- LEDs lock RED when in Alarm.
- Several base options, including relay, isolator, and sounder.
- Built-in functional test switch activated by external magnet.
- Listed to UL 268.
- Capable of heat-only alarm mode, enabled by a special command from the panel. Smoke alarms are ignored.
- Backwards-compatible on most panels.
- Low-temperature signal at 45°F/7.22°C (+/– 10°F/5.54°C).

SPECIFICATIONS

Sensitivity: *auto-adjusting levels:* 1 to 2%/ft. and 2 to 4%/ft. with Legacy systems; 1 to 2, 2 to 3, and 3 to 4%/ft. with ONYX™

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UL LISTED S1115 ®

ULC LISTED CS308 *(FAPT-751A)*

MEA 229-00-E

California State Fire Marshal
7272-0028:208
7272-0028:206

MARYLAND State Fire Marshal
Permit # 2046

SSL LISTED
XF1747/R3

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systems; *fixed-sensitivity levels:* 1, 2, and 4%/ft. with Legacy systems; 0.5, 1, 2, 3, and 4%/ft. with ONYX™ systems.

Operating voltage range: 15 – 32 volts DC peak.

Standby current (max. avg.): 250 µA @ 24 VDC (without communication); 360 µA @ 24 VDC (one communication every 5 seconds with LED enabled).

Maximum alarm current *(LED on):* 10 mA @ 24 VDC ("ON").

Loop resistance: 40 ohms maximum; varies according to control panel used. Refer to panel installation manuals.

Operating humidity range: 10% – 93% non-condensing.

Operating temperature range: 0° to 38°C (32° to 100°F).

Air velocity rating: 0 to 4,000 ft/min (20.32 m/sec).

Height: 1.66 inches (4.216 cm).

Diameter: 4.1" (10.4 cm) in B501 base; 6.1" (15.5 cm) in B710LP base.

Weight: 3.6 oz. (104 g).

Thermal sensor: 135°F (57°C) fixed.

INSTALLATION

The FAPT-751 plug-in detector uses a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug-in and remove detectors without using a ladder. Mount base on a box at least 1.5" (38.1

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mm) deep. Suitable mounting base boxes include:

- 4" (101.6 mm) square box.
- 3-1/2" (88.9 mm) or 4" (101.6 mm) octagonal box.
- Single-gang box (except relay or isolator base).

APPLICATION NOTE: The FAPT-751 detector has the unique ability to adjust sensitivity according to the environment, based on heat and smoke levels. Avoid installing these detectors in locations that are susceptible to rapid and high temperature changes. An example of an incorrect application would be near or in line with the output of a self-contained heater.

ORDERING INFORMATION

FAPT-751 Low-profile intelligent multi-sensor detector.

AVAILABLE BASES:

B710LP Standard U.S. 6.2" (157.48 mm) low-profile base.

B710LPBP Standard U.S. 6.2" (157.48 mm) low-profile base. Package of ten (10).

B501 Standard European 4" (101.6 mm) flangeless base.

B501BP Standard European 4" (101.6 mm) flangeless base. Package of ten (10).

B501BH Sounder base, includes B501 base above.

B501BHT Same as B501BH, but includes temporal sounder.

B224RB Intelligent relay base

B224BI Intelligent isolator base. Isolates SLC from loop shorts.

ACCESSORIES:

SDG-773 Smoke detector guard. This guard, although mechanically compatible, is **NOT** UL-compatibility Listed with the FAPT-751.

F110 Retrofit replacement flange for BX-501 base. Converts BX-501 base for use with low-profile detectors.

RA400Z Remote LED annunciator. 3 – 32 VDC. Fits U.S. single-gang electrical box. *For use with B710LP and B501 bases **only**.*

SMK400 Surface mounting kit provides for entry of surface wiring conduit. *For use with B501 base **only**.*
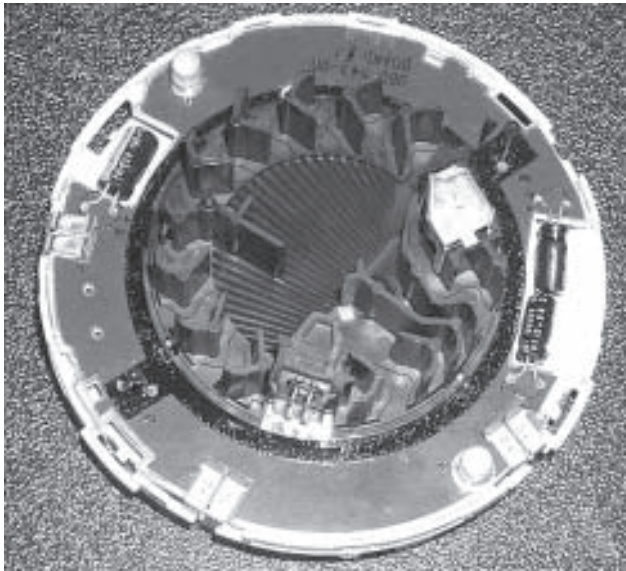
RMK400 Recessed mounting kit. *For use with B501 base **only**.*

M02-04-01 Test magnet.

XR-2 Detector removal tool. Allows installation and/or removal of 700 Series detector heads from bases in high ceiling applications.

XP-4 Extension pole for XR-2. Comes in three 5-ft. (1.524 m) sections.

751-b710.tif

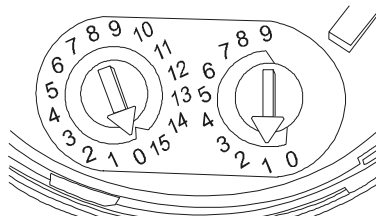**FAPT-751 with B710LP base**

5473recs.jpg

FAPT-751 with RMK400 recessed mounting kit

6833pho2.jpg
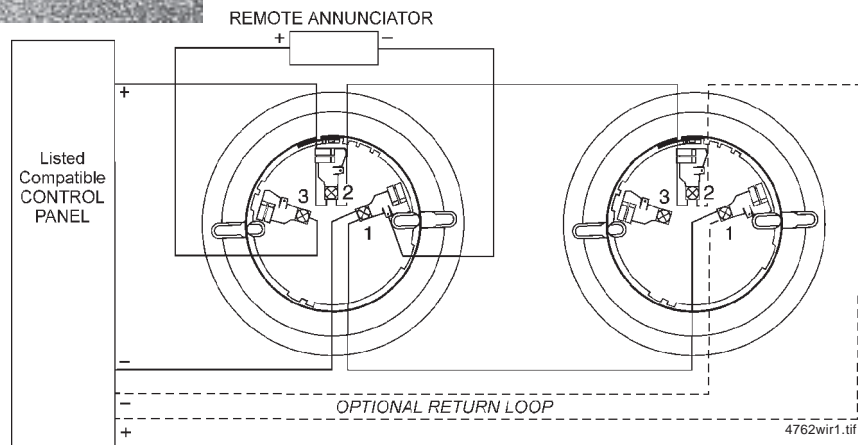
◆ *FAPT-751, cover removed*

6833addr.wmf

◆ *address dial on back of detector*

wiring diagram (standard base) ▶

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REMOTE ANNUNCIATOR

Listed Compatible CONTROL PANEL

OPTIONAL RETURN LOOP