

FWD-200PH-IN PHOTO-THERMAL WIRELESS DETECTORS

GENERAL

Notifier Wireless Detectors are intelligent (addressable) detectors which provide secure, reliable communication to the Fire Alarm Control Panel (FACP) across a Class A mesh network. Wireless detectors create an opportunity for applications where it is costly (concrete walls/ceilings, buried wires), obtrusive (surface mount conduit), or possibly dangerous (asbestos) to use traditional wired detectors. In addition, both wired and wireless detectors can be present on the same FACP providing an integrated wired-wireless solution for increased installation potential.

The Wireless detection line includes Photoelectric, Photo Thermal, Fixed heat, and Rate-of-rise heat detectors.

The photoelectric detectors transmit a digital representation of smoke density through a wireless mesh to a gateway and on to a FACP. The Photo-Thermal detectors combine a photoelectric chamber and a 135°F (57°C) fixed temperature heat detector. The Photo-Thermal can also transmit an alarm signal due to heat as per UL 521. The Fixed heat detector utilize sensors designed for open protection with 50-foot spacing capability as approved by UL 521.

The mesh network within the Wireless system creates a child-parent relationship between the detectors so that each detector has two parents providing a second path for communications on every detector. If one detector can no longer operate for any reason, the rest of the detectors can still communicate with each other, directly or through one or more intermediate detectors.

The Notifier Wireless detection system uses dual channels for any packet transmission for frequency redundancy in transmission.

The detectors communicate across the mesh network through a gateway to the FACP. The FACP views the wireless detector and another addressable detector on the system providing similar detection functions and outputs as a wired counterpart. In addition, both wired and wireless detectors can be present on the same FACP to meet the needs of a given application.

COMPONENTS AND ORDERING INFORMATION

- **FWD-200PH-IN: Wireless Photo-Thermal Detector**
FlashScan Intelligent Wireless Photo-Thermal detector (Base B501W-WHITE Included). Requires (4) CR-123A batteries (included). **UL Listed**
- **FWSG-IN: Flashscan Wireless System Gateway**
Notifier Wireless Gateway is required for each wireless mesh and supports up to 31 Wireless Detectors modules. Connects to the SLC loop of a compatible panel using FlashScan protocol. Power may be supplied by the SLC circuit or via an optional 24VDC input.

Note: Use of the 24VDC input may be more convenient for service as it allows for powering down a gateway without shutting down an SLC loop.



- **FW-DONGLE-IN: Wireless USB**
Radio/antenna dongle that plugs into the USB port of a PC running Wireless Tools. The W-USB provides a communication link with Wireless Detectors that are within approximately 20 feet and have not formed a mesh. Alternately, when the detectors have formed a mesh, bringing the PC/ W-USB within range (20 ft.) of the gateway for that mesh will allow Wireless Tools to acquire information on all detectors in that mesh, including point-to-point signal strength for all links.

FEATURES

Wireless installation	Class A mesh network
Addressable code wheels	Commercial applications
UL 268-7th Edition	UL 521-7th Edition
Redundant Channel	Bi-Directional Communication

COMPATIBLE CONTROL PANELS

NFS2-3030

SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Height	2.5" (63.5 mm) installed in B501W-WHITE base
Diameter	4.56" (116 mm) installed in B501W-WHITE base
Detector Weight (includes 4 batteries)	8.81oz (250 g) installed in B501W-WHITE base.

OPERATING SPECIFICATIONS

Operating Temperature Range	32°F to 100°F (0°C to 38°C), FWD-200PH-IN
Sensitivity Range	2.62 %/ft to 3.74 %/ft
Air Velocity	0 to 4,000 ft/min
Operating Humidity Range	10% to 93% RH, Non-condensing

ELECTRICAL SPECIFICATIONS

Radio Frequency Range	865-867 MHz
Maximum Transit RF Power	17dBm
Maximum Operating Voltage	3.3 VDC
Maximum Standby Current	210µA @3.3VDC
LED Current	5 mA @ 3.3 VDC LED on

BATTERY SPECIFICATIONS

Battery Type	4 Panasonic® CR123A
Battery Life	1 +years
Battery Replacement	Upon BATTERY LOW or BAT LOW display and/or during annual maintenance

AGENCY LISTINGS AND APPROVALS

The file number below reference the specific listings for the equipment. Consult the factory for the latest listing status. **UL: S36216**

STANDARDS AND CODES

The Wireless Intelligent Detectors comply with the following UL Standards and with NFPA 72 Fire Alarm System requirements.

- UL 864
- UL 268
- UL 251

COUNTRY OF ORIGIN

India

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