

FWH-200ROR135-IN FWH-200FIX135-IN WIRELESS THERMAL 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 Notifier Wireless Heat Detector comes in two options Rate of Rise and Fixed Heat detection. The fixed heat detector is 135°F (57°C) and rate-of-rise detectors utilize sensors designed for open area protection with 50-foot spacing capability as approved by UL521.

All sensors offer addressable code wheels and two LEDs. The LEDs are controlled by the panels. Operation modes include red, green, and amber colors with various solid or blink patterns.

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

- **FWH-200ROR135-IN: Wireless Rate of Rise Heat Detector**
FlashScan Intelligent Wireless rate of rise 135°F (57°C) Heat Detector (B501W-WHITE Included). Responds to greater than temperature change 15°F. Requires (4) CR-123A batteries (included). **UL Listed**
- **FWH-200FIX135-IN: Wireless Fixed Heat Detector**
FlashScan Intelligent Wireless fixed-temperature (57°C) Heat Detector (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.
- **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

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.



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FEATURES

Wireless installation	Class A mesh network
Addressable code wheels	Commercial applications
UL 521 7th Edition listed	Redundant Channel
Bi-directional communications	

COMPATIBLE CONTROL PANELS

NFS2-3030
NFS2-640
NFS-320

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.

BATTERY SPECIFICATIONS

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

OPERATING SPECIFICATIONS

Operating Temperature Range	332°F to 120°F (0°C to 49°C)
Operating Humidity Range	10% to 93% non-condensing
Thermal Ratings	Fixed Temperature Set Point: 135°F/57°C; Rate-of-Rise Detection: 15°F/min (8.3°C/min)

AGENCY LISTINGS AND APPROVALS

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

ELECTRICAL SPECIFICATIONS

Radio Frequency Range	865-867 MHz
Maximum Transit RF Power	17dBm
Maximum Operating Voltage	3.3 VDC
Maximum Standby Current	210 µA
LED Current	10mA

STANDARDS AND CODES

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

- UL 864
- UL 521

COUNTRY OF ORIGIN

India

For more information,

www.honeywellbuildings.in

Call : 000-8000-502167

Email: notifiertechsupport@honeywell.com

Honeywell HBT India Buildings

Unitech Trade Center, 5th Floor, Sector-43, Block C,

Sushant Lok Phase - I, Gurgaon - 122 002

www.honeywell.com

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