RF581I4

Wireless smoke/heat detector, legacy 433 MHz, 63 bit

Description

The RF581I4 is a wireless smoke / heat alarms, designed for use in a residential intrusion system with a compatible receiver understanding the legacy 433 MHz, 63 bit protocol.

The device has a test button surrounded by a status LED and a built-in sounder for alarm indication. The status LED flashes red every 45 seconds to indicate normal status (no alarm). When smoke or heat is detected (as configured), the status LED changes from flashing to continuously on, the built-in sounder is activated, and an alarm signal is sent to the control panel.

The test button itself can also be used to silence the internal sounder in case of a low battery alert and is, of course, used when performing a sensitivity and alarm test. The test button can even be used to perform a remote monitoring station alarm test.

The device sends a supervisory signal to the receiver every 15 to 18 minutes to report its status. The max RF output is estimated at 10 dBm.

In addition to the above the device also has a tamper switch that triggers a tamper signal transmission when the device is removed from its mounting base and also performs a self-diagnostic monitoring the sensitivity and operation status of the device.

The configuration switch hidden behind the batteries, can be used to select the sounder tone and volume. Another set of switches help to select the smoke and/or heat as well as their associated sensitivity levels.

We also have siting guidelines helping the installer to define where to put these devices in a residential application.

Details

- Option to select one technology only (heat or smoke) or both technologies (heat and smoke)
- Can also be used as a standalone detector
- Built-in sounder
- Test button surrounded with status LED
- 8 selectable sounder tones
- 5 years estimated battery life running on 2 batteries
- 2 additional battery slots available to further extend battery life
- EN14604:2005/AC:2008 and BS 5446-2:2003 certified

RF5811I4

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Technical specifications

General

Type	Heat, Smoke
Built-in sounder	Yes
Sounder output	85 dB at 3 m (continuous tone)
Status LED	Yes
Sensitivity	High: 0.08 dB/m / Low: 0.12 dB/m (smoke) ; High: 58°C / Low: 72°C (heat)

Wired / wireless

Wired-wireless	Wireless
Wireless frequency	433 MHz legacy

Electrical

Operating voltage	2.4 to 3.3 VDC
Current consumption	30 µA (standby) 200 mA (alarm) 60 mA (test)
Batteries	2 x 3 V (CR123A or DL123) 5 to 10+ years (estimated battery life, depending on number of batteries fitted) Audible alert every 45 s (low battery indication)

Physical

Detector dimensions	109 x 62 mm
Colour	White

Environmental

Vandal proof	Yes
Operating temperature	-10 to 55°C
Storage temperature	0 to 30°C
Relative humidity	Up to 90% noncondensing

Regulatory

Compliancy	CE
Certification	EN14604
Standards	BS5446-2

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