

Specifications

Features

- Motion Analyzer II Processing (patented)
- Motion Monitor (patented)
- Self-Test Supervision System
- Changeable Mirrors
- 360° x 60 ft. (18.3 m) Diameter Pattern
- 8 ft. to 18 ft. (2.4 m to 5.5 m) Mounting Height
- Built-in POPIT with Tamper Sensor (ZX938Z)

Description

The DS938Z and ZX938Z are ceiling-mount, 360° passive infrared intrusion detectors that use Motion Analyzer II to reduce false alarms. Both are equipped with advanced PIR detection and supervision circuits and are designed to provide an alarm condition upon detection of an intruder passing through its area of coverage.

The ZX938Z includes a built-in POPIT for convenient addressable alarm and trouble signalling. The built-in POPIT makes it easier to install, with low current consumption and fewer wires needed.

Motion Analyzer II uses multiple thresholds and timing windows to analyze timing, amplitude, duration, and polarity of signals to make an alarm decision. Three PIR sensitivity settings are available.



The DS938X and ZX938Z PIR Intrusion Detectors

The detectors will not signal an alarm on extreme levels of heat and light produced by heaters, air conditioners, hot and cold drafts, sunlight, lightning, or moving headlights.

The Motion Monitor supervision feature verifies that the detector has a clear view of the detection area. If the detector has not alarmed at least once during the selected supervision interval, (4 or 30 days), a trouble condition is indicated.

The DS938Z and ZX938Z both have field replaceable, mirrored optics allowing it to be mounted on ceilings from 8 ft. to 18 ft. (2.4 m to 5.5 m) in height.

Accessories

TC6000 Test Cord

Specifications

Coverage:

360° by 60 ft. (18.3 m) diameter.

For UL Certificated installations, the coverage is 360° by 54 ft. (16.5 m) when mounted 10 ft. to 13 ft. (3.1 m to 4 m) using the AR8-13 Array, and when mounted from 15 ft. to 18 ft. (4.6 m to 5.5 m) using the AR13-18 Array.

Power Requirements:

DS938Z: 6 to 15 VDC, 18 mA nominal @ 12 VDC

ZX938Z: Less than 500 micro-amps, 2 mA when in alarm with LED enabled. Input power comes from 2-wire Zonex loop.

Note: Do not leave ZX938Z Walk Test LEDs enabled.

Alarm Output:

DS938Z: Form "C" reed relay rated at 3.0 watts, 125 mA @ 28 VDC for resistive loads.

ZX938Z: Signal via POPIT data bus.

Tamper Output:

DS938Z: Normally closed (with cover in place) tamper switch. Contacts rated at 28 VDC, 125 mA maximum.

ZX938Z: Signal via POPIT data bus. A tamper is signaled as "Missing."

Radio Frequency Interference (RFI) Immunity:

No alarm or setup on critical frequencies in the range from 26 to 950 mHz at 50 v/m.

Storage and Operating Temperature:

-20° to +120°F (-29° to +49°C).

For UL Certificated installations, +32° to +120°F (0° to +49°C).

Test Features:

Three externally visible high-output alarm LEDs (visible from any angle) flash to indicate trouble condition. Internal noise voltage test pins provide precise pattern location and background disturbance evaluation using a standard analog meter and the TC6000 Test Cord.

Supervision Features:

PIR Supervision - Provides trouble output in the event PIR circuitry fails.

Motion Monitor - Switch-selectable 4 and 30 day timers verify that there is a clear view of the protection area.

Enclosure Design:

Modular high impact ABS electronic head and mounting/wiring base design with rugged removable polyethylene dome provides easy access to field setup switches. Measures 3.325 in. H by 5.25 in. D (8.4 cm x 13.3 cm).

Mounting:

8 ft. to 18 ft. (2.4 m to 5.5 m). Mounts directly to ceiling or to standard 4 inch (10.2 cm) octagonal electric box.

U.S. Patents:

#4,764,755; #4,920,268; #5,083,106.

Listings and Approvals

- Underwriters Laboratories
- Underwriters Laboratories of Canada

Coverage

