NEXT DUO

Dual-Technology, Digital MW/PIR Intrusion Detector



RED

- PIR SENSOR

MIM

MODULE

CASE SCREW

Installation Instructions

GREEN

WALK

EVENT

BR-1: Surface mounted swivel bracket, adjustable 30° down and

Operating Temperature: -10°C to 50°C (14°F to 122°F)

WALK

LED

LENS

Figure 1. General View

BR-2: BR-1 with a corner adapter

BR-3: BR-1 with a ceiling adapter

munications terminal equipment.

ACCESSORIES:

45° left/45° right.

ENVIRONMENTAL

PHYSICAL

1. INTRODUCTION

The NEXT DUO is a digital, microprocessor-controlled MW / PIR detector that can be adapted to the size of the protected area by use of a model selector. A different digital signal processing (DSP) is used upon selection of each model, thus optimizing both PIR and MW performance within the protected area.

The PIR section of the NEXT DUO employs a cylindrical lens with uniform detection sensitivity beginning at 0.5 m (1.8 ft) away from the detector up to a distance of 12 meters (40 ft). Advanced True Motion Recognition[™] algorithm (patented) allows the NEXT DUO to distinguish between the true motion of an intruder and any other disturbances which cause false alarms.

A Test input permits switching the detector to the walk test mode remotely without removing the front cover. An on-board motion event jumper determines whether 1 or 2 consecutive motion events would trigger an alarm.

2. SPECIFICATIONS

Selectable Models: Models covering 6, 9 and 12 meters (20, 30 and 40 ft), selected upon installation

Input Voltage: 9 to 16 VDC

Current Drain: About 20 mA @ 12 VDC

PIR SECTION (see Figure 3)

Lens Data

No. of Curtain Beams: 9 + 5 Max. Coverage: 12 x 12 m (40 x 40 ft) / 90°

Tripping Indication: Indicator lights ORANGE for about 3 sec.

MW SECTION

Oscillator Type: Microstrip, DRO-stabilized

Frequency: 2.45 GHz

Detection Range: Up to 12 m Tripping Indication: Indicator lights GREEN for about 3 sec.

ALARM and TAMPER

Alarm Output: Solid-state relay, N.C., up to 100 mA / 30 V, ~30 Ω internal resistance. Circuit opens for 2-3 seconds upon alarm. Alarm Indication: Indicator lights RED for about 3 seconds. Event Counter: Selectable, 1 or 2 motion events Tamper Contacts: Normally closed, 50 mA resistive / 30 VDC

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MOUNTING

Surface or corner, at the height of 1.8 to 2.4 m (6 to 8 ft) Note: Base allows single-sided corner mount at 45° to wall.

3. INSTALLATION

3.1 General Guidelines





Figure 2. Inside View

2.45 GHz has no restriction in any EU member state. The term "IC" before the certification number IC: 1467A -NEXTDUO (that is printed on the detector) signifies that the Industry Canada technical specifications were met.

To comply with the Canadian standard RSS-210, this device must be operated indoors only to provide maximum shielding and to prevent interference to licensed services.



- A. Microwave radiation passes through glass and non-metallic walls. Be sure, therefore, to select the correct model in accordance with the room size. This is important to minimize the effect of movements occurring beyond room limits which might cause the MW section to trip.
- B. Large reflecting objects (especially metals) in the coverage area can distort the microwave detector's coverage pattern.
- C. If two NEXT-DUO units are installed in the same room or on opposite sides of a shared wall, they should not face each other and must be mounted at least 20 cm (0.6 ft) apart.

Attention! At power up, the detector undergoes a 60-second stabilization period, indicated by alternate flashing of the red and green LEDs.





Figure 3. Maximum Coverage Pattern



4. SPECIAL COMMENTS

Even the most sophisticated detectors can sometimes be defeated or may fail to warn due to: DC power failure / improper connection, malicious masking of the lens, tampering with the optical system, decreased sensitivity in ambient temperatures near that of the human body and unexpected failure of a component part.

The above list includes the most common reasons for failure to detect intrusion, but is by no means comprehensive. It is therefore recommended that the detector and the entire alarm system be checked weekly, to ensure proper performance

An alarm system should not be regarded as a substitute for insurance. Home and property owners or renters should be prudent enough to continue insuring their lives and property, even though they are protected by an alarm system.



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MADE IN ISRAEL

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Refer to separate warranty statement

Re-orient or re-locate the receiving antenna.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

Be-origin or re-locate the receiving national.

Increase the distance between the device and the receiver. Connect the device to an outlet on a circuit different from the one that supplies power to the receiver. Consult the dealer or an experienced radio/TV technician.

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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