

# NEXT K9-85

Pet-Immune Digital PIR with TMR™ Signal Processing



Installation Instructions

## 1. INTRODUCTION

The NEXT K9-85 is a pet-immune microprocessor-controlled PIR detector, designed for easy installation, free of vertical adjustment. It features a cylindrical lens with uniform detection sensitivity up to a distance of 12 meters (40 ft), and immunity to pets weighing up to 38 kg (85 lb).

Advanced **True Motion Recognition™** algorithm allows the NEXT K9-85 to distinguish between the true motion of an intruder and any other disturbances, which cause false alarms. In addition, **Target Specific Imaging™ (TSI)** technology is employed for distinction between human beings and pets.

A TST (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.

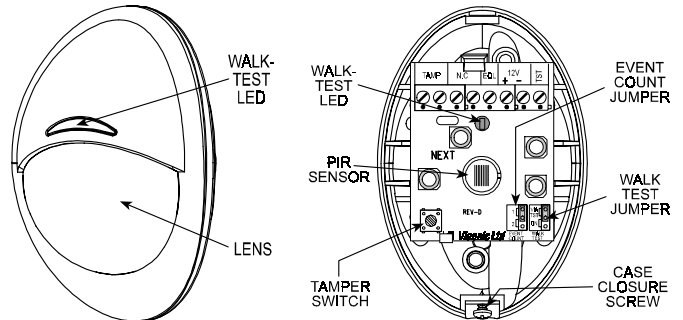


Figure 1. General View

Figure 2. Inside View

## 2. SPECIFICATIONS

**Input Voltage:** 9 to 16 VDC

**Current Drain:** About 8 mA @ 12 VDC

**OPTICAL (see Figure 3)**

**Lens Data**

**No. of Curtain Beams:** 9

**Max. Coverage:** 12 x 12 m (40 x 40 ft) / 90°

**Pet Immunity:** Up to 38 kg (85 lb).

**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:** LED lights for 2-3 seconds.

**Event Counter:** Selectable, 1 or 2 motion events

**Tamper Contacts:** Normally closed, 50 mA resistive / 30 VDC

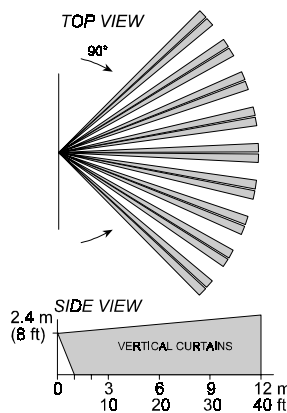


Figure 3. Coverage Pattern

### 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.

### ACCESSORIES:

**BR-1:** Surface mounted swivel bracket, adjustable 30° down and 45° left/45° right.

**BR-2:** BR-1 with a corner adapter

**BR-3:** BR-1 with a ceiling adapter

### ENVIRONMENTAL

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

**Storage Temperature:** -20°C to 60°C (-4°F to 140°F)

**RFI Protection:** Greater than 20 V/m (20 MHz to 1000 MHz)

### PHYSICAL

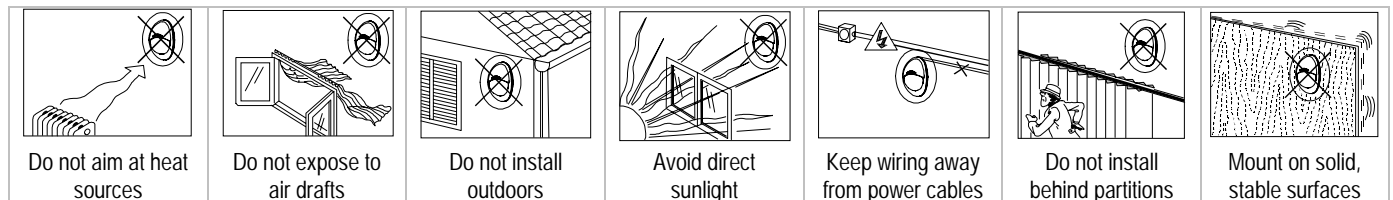

**Size (H x W x D):** 94.5 x 63.5 x 49.0 mm (3-11/16 x 2-1/2 x 1-15/16")

**Weight:** Approximately 50 g (1-3/4 oz)


**PATENTS:** U.S. Patents 5,693,943 • 6,211,522 • D445,709 (another patent pending)

## 3. INSTALLATION

### 3.1 General Guidelines

**Important!** The detector is immune to 38 kg (85 lb) animals moving on the floor or climbing on furniture as long as the activity takes place below 1 m (3 ft). Above the 1 m (3 ft) height limit, the detector is immune to 19 kg (42 lb) pets, but the pet immunity will decrease as the pet gets closer to the detector. It is therefore recommended to select a mounting location that minimizes potential close proximity of animals.



**Correct use of the optional brackets:**

**With pets:** in pet immune applications, optional brackets should be used for horizontal alignment only - the detector should remain vertical (perpendicular to the ground).

**Without pets:** To obtain the best possible coverage where no pets are present, use a bracket and tilt the detector 20° down.

## 3.2 Illustrated Installation Procedure

### 1 Disassemble unit

### 2 Open holes in base

### 3 Mount base

1.8-2.4m (6-8ft) above ground. For range above 10m (30ft) recommended height is up to 2.1m (7ft)

### 4 Set jumpers as needed

**WALK TEST REMOTE CONTROLLED VIA TST INPUT:**

- TST Input grounded: walk test active
- TST Input "+12V": walk test disabled

**EVENT COUNT:**

- 1 EVENT - FAST RESPONSE
- 2 EVENTS - HIGHEST FALSE ALARM PROTECTION

### 5 Wire up the terminal block

### 6 Walk-test the coverage area

## 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 close to 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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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:

- Re-orient or re-locate the receiving antenna.
- 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.



MADE IN ISRAEL

Refer to a separate warranty statement