

ROKONET

COSMOS PET DETECTORS

Dual Technology & PIR models
Full pet immunity with superior
catch performance!



- Full pet immunity up to 100lb (45kg) dog, 6 cats
- Superior catch performance
- Available in 2 versions:
8m x 8m (27'x27') coverage
11m x 11m (35'x35') coverage
- "Active" creep zone assures pet immunity without loss of intruder detection
- Unique VPT algorithm

For full pet immunity with no loss of catch performance the COSMOS pet detectors are unbeatable. With both COSMOS pet PIR and COSMOS pet DT models to choose from - all your residential and commercial installation problems are easily solved. Using unique VPT (Variable Pet Thresholding) pet immunity algorithms and a custom designed lens COSMOS pet detectors easily distinguish between intruders and pets.

COSMOS pet PIR & DT detectors with unique VPT algorithm and custom lens.

Using unique VPT algorithms (Variable Pet Thresholding) and a custom designed lens the COSMOS pet PIR & DT detectors readily distinguish between intruder and pet signals while assuring superior catch performance.

Lens Design

The COSMOS pet lens is designed to reduce signals from pets while assuring catch performance of intruders. The lens' detection zones are shown in Fig. 2 below. The upper level is much more sensitive than the lower ones. When the detector is mounted at the recommended height of 2m(6.6') / 2.4m(8') this upper level enhances signals from upright intruders, making it easier to distinguish between them and a pet.

In addition the "active" creep zone ensures catch performance below the detector without compromising pet immunity.

VPT algorithm

The COSMOS pet PIR & DT detectors utilize their microprocessor to analyze the shape and length of the PIR pulses from pets and intruders (see Fig 1). The COSMOS pet lens design is such that pets are characterized by longer and flatter pulses that do not reach the alarm threshold. On the other hand the zones are optimized to the size of an intruder and thus produce a shorter but stronger signal that causes an alarm.

Based on the above a unique VPT (Variable Pet Thresholding) algorithm has been developed which determines thresholds which readily distinguish between pets and intruders.

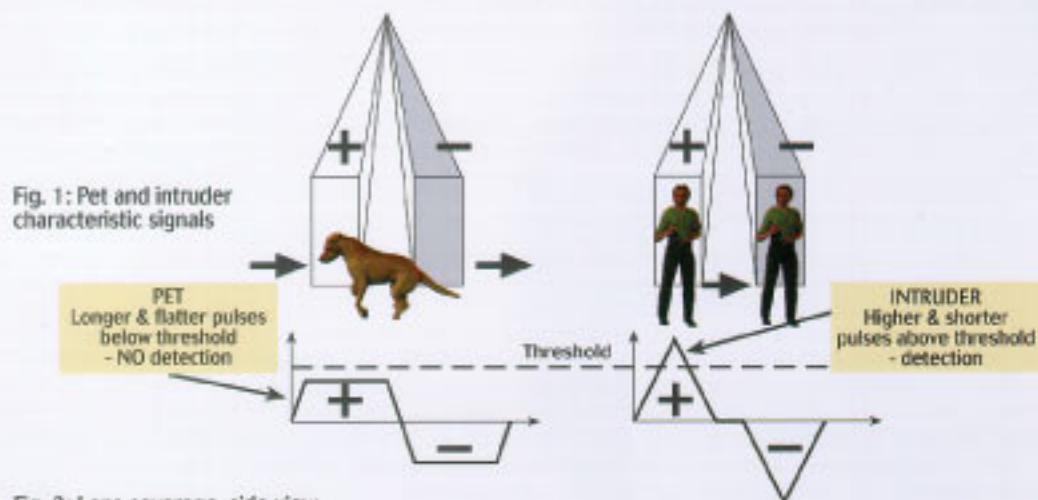
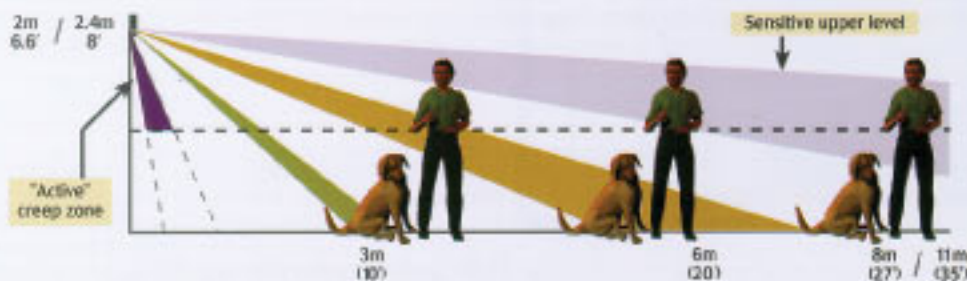


Fig. 2: Lens coverage, side view.



Specifications

| | Cosmos pet DT | | Cosmos pet PIR | |
|-----------------------|-----------------------------------|------------|-------------------------|------------|
| | (RK 108PT) | (RK 111PT) | (RK908PT) | (RK 900PT) |
| Pet Immunity | 100lb (45kg) dog, 6 cats | | 80lb (37kg) dog, 5 cats | |
| Coverage Range | 8m (27') | 11m (35') | 8m (27') | 11m (35') |
| Installation Height | 2.4m (8') | 2m (6.6') | 2.4m (8') | 2m (6.6') |
| Operating Voltage | 9 to 16VDC regulated | | | |
| Current Consumption | 17mA | | 15mA | |
| Alarm Contacts | NC, 50mA, 24V DC maximum | | | |
| Tamper Contacts NC | 100mA, 24V DC maximum | | | |
| Alarm Time | 2,2 seconds minimum | | | |
| RF Immunity | 30V/m at 10MHz to 1GHz | | | |
| Operating Temperature | 0C to 55C (32F to 131F) | | | |
| Storage Temperature | -20C to 60C (-4F to 140F) | | | |
| Dimensions | 128 x 64 x 50mm (5 x 2.5 x 1.6in) | | | |



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