



# unum DT

**Dual-technology motion detector**

**KSI5102000.300**

**KSI5102100.300**



# DATASHEET

## INTRODUCTION

DT Motion Detectors **unum** include two motion sensing systems: microwave Doppler motion sensing and PIR motion sensing. Together, the two systems' signals are evaluated by proprietary signal processing algorithms, which reject false alarm conditions while detecting intruders. The DT Motion Detector **unum** microwave system includes a modern, compact, DRO-based micro-strip Doppler transceiver, with PCB "patch" antennas.

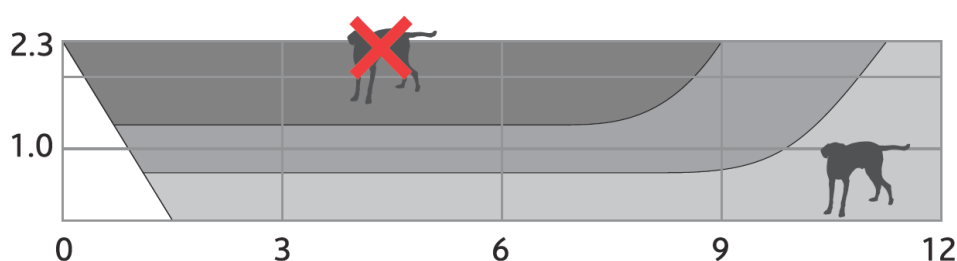
The Doppler signal is digitally processed to detect intruders and reject distractions. Constant-motion signals (such as fans) are deemphasized, and fluorescent light frequencies are digitally removed.

The PIR side starts with a Even Eye lens and a top-quality infrared detector. Next, a modern DSP ASIC (patent-pending) converts the infrared detector signal into digital form, for best reliability and stability.

Finally, the signal is evaluated by the ASIC's HighBar processor, for "best-in-class" false alarm rejection with excellent intruder detection.

The DT-PI **unum** series join the advantages of the Dual-Technology described above and Pet Immunity. The best Technology to server the customer.

The DT-PI detectors should be mounted so that pets will occupy only the lighter-colored spaces.



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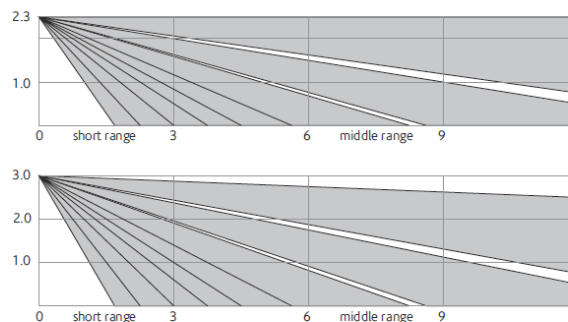
## TECHNICAL DATA

- **IR Sensor:** Dual elements
- **Power Supply:** 8-16 Vdc; 38 mA at 12 Vdc
- **Alarm Relay:** Solid state, 60V, 50 mA, 1500 Vrms isolation
- **Tamper Switch:** Form A (NC); 50 mA at 30 Vdc
- **Microwave Operating Freq.:** around 10GHz. See unit label
- **Events Detection:** Sure Spot™ processing engine
- **RF Immunity:** 20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **White Light immunity:** 6500 lux
- **Pet immunity:** Up to 10 Kg
- **Sensitivity:** Selectable: 2-events or 3-events
- **Range:** Microwave 20%-100% adjustable
- **Lighting rejection:** selectable 50 or 60 Hz.
- **Operating Temperature Range:** from +5 °C to +40 °C
- **Housing Material: Base:** ABS; **Front:** HDPE
- **Dimensions:** 113 x 60 x 45 mm
- **Weight:** 95 g

### Range

12 meters in sensor-facing direction

12 meters at 45° angle from sensor-facing direction



Sensor Optical View Pattern: side view, in meters

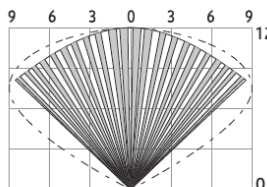
### Optical Fields-of-View

Long-range: 44

Mid-range: 36

Short-range: 18

One FOV (field on view)  
Microwave detection area



Sensor Optical View Pattern (top view, in meters)

**Ksenia**  
security innovation

# DATASHEET

## HOW TO ORDER

KSI5102000.300 - unum DT  
KSI5102100.300 - unum DT Pet Immune

## INCLUDED PARTS

1 Motion detector unum  
1 Installation Guide in ITA/EN/FR

## ACCESSORIES

KSI5900000.000 - Wall-Mounting Bracket

## CERTIFICATIONS

EN50131 Gade 2 - Class II



## ENVIRONMENT PROTECTION

**unum DT** has been designed and manufactured with the following features to reduce environmental impact:

- PVC-free
- Halogen-free laminates and printed circuits unleaded
- low absorption
- Packing made for the most part with recycled fibers and materials from renewable sources

