

## PIR-Pet Immune Motion Detector series unum™

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The PI-PIR Motion Detectors unum™ are professional state-of-the-art motion sensors engineered with the world's best components and materials. Additionally the UNUM series introduces in the market the only detectors with trendy invisible lens, i.e. the lens integrated into the front cover thanks to E.L.T.™ (Embedded Lens Technology) which takes advantage from decades of experience in designing professional lens. The PIR side starts with a EvenEye™ 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.

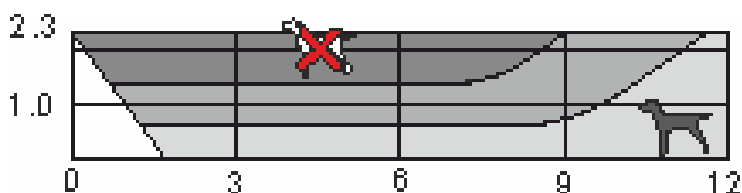
### PET IMMUNITY

The PI-PIR Motion Detector unum is designed to allow the presence of pets (10Kg or lighter) without signaling an alarm. It includes a special micro-element lens array that produces much stronger optical signals for humans than for pets 10Kg or lighter. Furthermore, the optical sensitivity of each PI-PIR Motion Detectors unum is factory-calibrated to ensure accurate discrimination between humans and pets.

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*NOTE: Pets come in many varieties. Some pets (especially larger ones with very short hair), even if lighter than 10Kg, may produce enough infrared radiation to cause alarms. PI-PIR Motion Detectors UNUM users are strongly advised to test the sensor with their own pets, in order to verify that the PI-PIR Motion Detectors UNUM will not signal an alarm when their pets are moving within its fields of view.*

The diagram below shows the PI-PIR Motion Detectors UNUM's zones of greatest human/pet discrimination. The PI-PIR Motion Detectors UNUM should be mounted so that pets will occupy only the lighter-colored spaces.



### MAIN FUNCTIONS DESCRIPTION:

#### ALARM PROCESSING

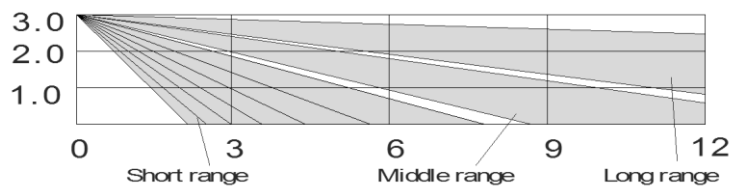
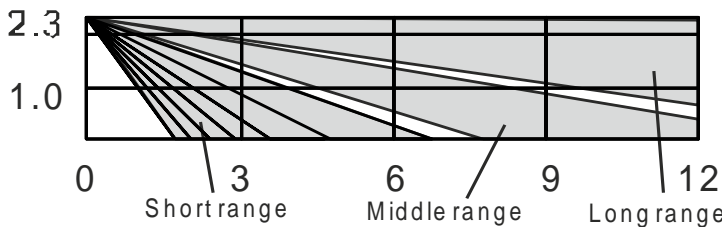
Dual-element detector fields-of-view alternate between (+) and (-) polarity. HighBar™-qualified signal events are counted as “pulses” exclusively when polarity alternates. Depending on sensitivity setting, (+,-), (-,+), (+,-,+) or (-,+,-) will cause an alarm.

DATA SHEET

**PIR-Pet Immune Motion Detector series unum™**

**Range:** 12 meters in sensor-facing direction  
 12 meters at 45° angle from sensor-facing direction

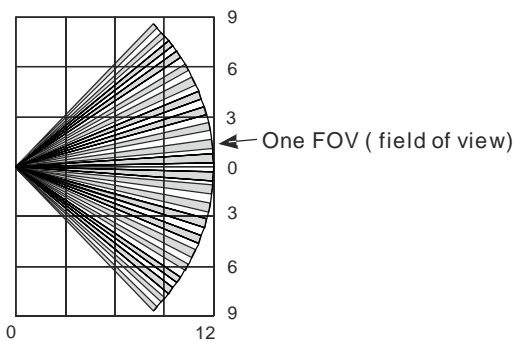
**Sensor Optical View Pattern:** (side view, in meters)



**Optical Fields-of-View:**

Long-range	Mid-range	Short-range
44	36	18

**Sensor Optical View Pattern (top view, in meters)**



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### CERTIFICATIONS:

Region	Certifications	PIR-PI unum™
Europe	RoHS, CE, EN50131-2-2 Grade2	

### TECHNICAL DATA:

**IR Sensor:** Dual-element Pyroelectric  
**Power Supply:** 9-16 Vdc; 24 mA at 12 Vdc  
**Alarm Relay:** Form A(NC),50mA at 30 Vdc.  
**Tamper Switch:** Form A (NC). 50 mA at 30 Vdc  
**Events Detection:** HighBar™ false alarm rejection processor  
**RF Immunity:** 20 V/m, 10-1000 MHz;10 V/m, 1-2 GHz  
**White Light Immunity:** 6500 lux  
**Sensitivity:** Selectable: 2-event or 3-event  
**Operating Temperature Range:** -10°C to +55° C (+14°F to +131°F)  
**Housing Material:** Base: ABS, Cover: HDPE  
**Overall Dimensions:** 113 x 60 x 45 mm ( H x W x D )

### OPTIONAL ACCESSORIES:

Ksenia p/n	description
KSI5900000.000	Mounting Bracket

**KSI5101100.300**

**DATA SHEET**



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### **HOW TO ORDER:**

Ksenia P/n for PIR-PI Motion Detector unum™ : **KSI5101100.300**

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unum™ has been designed for the environment as follows:

- Absence of PVC
- PCB laminates without Brome and Lead
- Low consumption
- Packaging realized mainly with recycled fibers and materials

