



# ianitor

**outdoor Triple-Tech Anti-Masking & Pet Immune  
Motion Detector**

KSI5302010.300



# DATASHEET

## INTRODUCTION

Motion Detector microwave system includes a modern, compact, DRObased 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 de-emphasized, and fluorescent light frequencies are digitally removed. The optical side starts with a EvenEye lens and a top-quality specially-designed DFIR infrared detector.

Next, a modern microcontroller converts the infrared detector signal into digital form, for best reliability and stability. Finally, the signal is evaluated with anti-sway processing, for "best-in-class" false alarm rejection with excellent intruder detection.

ianitor TRIPLE TECH. Motion Detector includes two motion sensing systems: one microwave Doppler motion sensing, one PIR and one DFIR (Double Frequency PIR) motion sensing, with directional motion sensing to reject false alarms caused by swaying objects. Together, the two systems' signals are evaluated by proprietary signal processing algorithms, which reject false alarm conditions while detecting intruders.

### ANTI-SWAY FUNCTION

ianitor TRIPLE TECH Motion Detector is a motion sensor, and it will normally detect swaying motion. However, the outdoor environment may contain swaying objects that are not intruders (for example, wind-blown trees). Thus, to suppress "nuisance alarms", the ianitor TRIPLE TECH. Motion Detector provides an "anti-sway" function to require that, before motion is indicated, a moving object must make directional progress across the sensor's fields of view. This function can be enabled or disabled by a programming jumper. Obviously, with this feature enabled, you must an extended in front of the sensor is needed to Report an alarm. For details please refer to installation instructions.

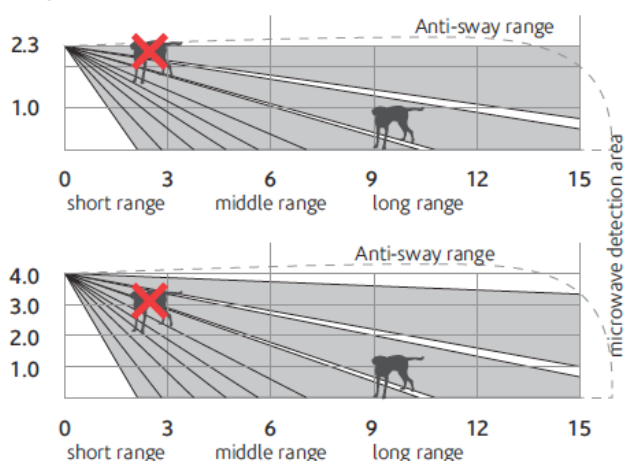


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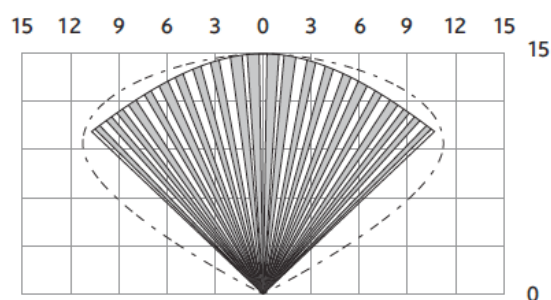
## TECHNICAL DATA

- **IR Sensors (2):** Dual-element + Quad-element
- **Power Supply:** 8-16 Vdc; 50 mA at 12 Vdc
- **Alarm Relay:** Solid state, Form A (NC) 50 mA at 30 Vdc, 1500 Vrms isolation
- **Alarm, Trouble Signal Outputs:** NPN open-collector to (-), 50 mA Max., NC no alarm; NC no trouble, Remote LED Enable, DFIR Range, DFIR
- **Sensitivity Inputs: Logic levels from (-):** 1Vdc=LOW; 3Vdc=HIGH; Max.=16 Vdc
- **Tamper Switches (cover/wall):** Form A (NC). 50 mA at 30 Vdc
- **Housing Material:** PC housing, HDPE lens
- **Dimensions:** 171×76×61 mm (h×w×d)
- **Lighting Rejection:** Selectable: 50 or 60 Hz
- **Microwave Operating Freq** Around 10 GHz See unit label
- **Events Detection** DFIR anti-sway false alarm rejection processor
- **RF Immunity:** 20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **Pet-Immunity:** 15 / 20 Kg
- **White Light Immunity:** 25000 lux
- **Sensitivity:** DFIR
- **Selectable:** short-walk or long-walk
- **Range:** Microwave 20%-100% adjustable
- **Operating Temperature Range:** -10 °C to +55 °C
- **Storage:** -40 °C to +60 °C

Sensor Optical View Pattern (side view, in meters)



One FOV (field on view) – Microwave detection area



Optical Fields-of-View

Long-range: 88 Mid-range: 38 Short-range: 26

Sensor Optical View Pattern (top view, in meters)

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## HOW TO ORDER

KSI5303010.300

## INCLUDED PARTS

1 ianitor outdoor motion detector  
1 Installation Guide in ITA/EN/FR

## ACCESSORIES

KSI5900001.300 - Mounting Bracket

## ENVIRONMENT PROTECTION

**ianitor** 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

