



velum DT AM

**Dual-technology Anti masking motion detector
(infrared and microwave)**

KSI5302010.303



INTRODUCTION

Ksenia velum is a motion sensor dual technology with Anti masking which can be installed both outside and inside.

velum detectors are motion sensors made with advanced professional components and materials among the best in the world. From every point of view, these sensors guarantee the highest degree of reliability in the detection of the movement, without incurring false alarms.

The motion detector velum includes two technologies for motion detection: microwave doppler effect and infrared. Together, these two signals are interpreted by proprietary algorithms that reject false alarms and detect unwanted intrusions.

Section microwave sensors velum includes a transceiver Doppler microstrip modern and compact. The Doppler signal is digitally processed to obtain the highest degree of reliability in intrusion detection and exclusion problems. The signals of repetitive motion are filtered so as frequencies resulting from fluorescent light are eliminated in digitally. The section to the IR acts with a lens combined with an infrared detector of high quality.

Finally the signal is evaluated by a processor, for obtaining the exclusion of false alarms while maintaining an excellent degree of intrusion detection.

The masking of the lens of the infrared analysis is carried out using infrared LED active, able to detect any obstacle placed in the vicinity of the lens.

velum detectors is the ideal solution can protect situations such as canopies, porches, below balcony, windows etc. The sensor velum is synonymous reliability and high safety, not only from the qualitative point of view, but also against sabotage attempts, given that integrates a station with accelerometer flexible and functional even in installations with the hub and a micro switch for front opening



DATASHEET

TECHNICAL DATA

- **Power Supply:** standard 12V, max 13,4V
- **IR sensor:** Dual element
- **IR range:** 12m (room temperature 25 ° C)
- **Warm-up time:** 60 sec
- **Operating FrequencyMW:** 24.125GHz
- **Range MW:** 12m
- **Antimasking Analysis:** active. infrared LED
- **Thornproof:** mems platform. (Accelerometer)
- **Sabotage:** front microswitch
- **Operating Temperature Range:** from -20°C to +55° C
- **Immunity RFI/EMI:** 20V/m, 10-1000MHz;10 V/m, 1-2GHz
- **White light immunity:** 6500lux
- **Range MW:** adjustable by trimmer
- **Analysis control tear:** enabling by dip-switch
- **Analysis antimasking:** enabling by dip-switch
- **LED indicators:** RGB in five colors, can be disabled via dip-switch
- **Detection area:** only a tent (angle 7.5 °)
- **Horizontal coverage:** IR 90 ° , 80 ° MW
- **Vertical coverage:** IR 7.5 ° , 32 ° MW
- **Amplitude tent:** a 2m 25cm, 130cm at 10m
- **Detection range:** from 0.30m to 12m
- **Installation height:** 2.30m from 2.10m max on the wall
- **Mounting:** with bracket angle (reversible) on the wall
- **Material housing and clamps:** ABS
- **Dimension:** 38 x 129 x 40mm (l x h x p)
 - With wall bracket: 45 x 129 x 40mm
 - With angle bracket: 45 x 129 x 45mm
- **Weight:** 90g
- **Protection:** IP54
- **Color:** gray
- **Embedded EOL resistance:** triple balancing 10Kohm parallel (To enable via microswitch) integrated on the PCBA



DATASHEET

HOW TO ORDER

Finished Code Ksenia
KSI5302010.303

INCLUDED PARTS

1 Motion detector velum
1 Wall Bracket
1 Angled bracket
1 Mounting kit
1 Installation Guide in ITA/EN/FR

ENVIRONMENT PROTECTION

velum DT-AM 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



Ksenia
security innovation