



code KSI5402010.303

velum DT AM wls is a motion sensor dual technology with anti masking which can be installed both outside and inside. It 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.

Description and functionalities

velum DT-AM wls detectors, due to their small form factor, are particularly suitable for doors and windows protection; high quality of materials and improved technology make these detectors appropriate in outdoor environments where the coverage of defined areas, like vertical walls or gates, is needed. These detectors implement a curtain coverage with an angle of about 7.5° and they have a trimmable range up to 12 meters. The wireless technology used is of the latest generation, fully bi-directional (each device acts as transceiver allowing every transmission to receive a confirmation message) at 868 MHz frequency band. A sophisticated proprietary control of power transmission (DPMS - Dynamic Power Management System) maximizes batteries life and optimizes the transmission power depending on the distance between the devices; this allows to reduce interferences.

The fabrication materials used are waterproof and the electronic board is treated with epoxy resin to ensure its correct working in every humidity and temperature condition.

The accurate design and the digital signal processing of microwave make these sensors very stable and prevent from false alarms.

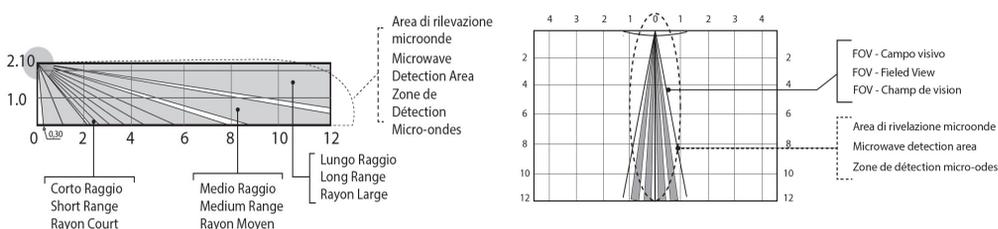
The anti-masking process has been implemented using active IR LEDs.

The outdoor curtain velum DT-AM wls detectors are synonym of reliability and high security, not only from a quality point of view, but also against sabotage attempts, in fact the anti-tamper protection is ensured by an accelerometer and by a switch against the front opening.

Coverage diagram

LATERAL VIEW: Standard lens coverage.
Horizontal coverage (LATERAL VIEW): IR 90°, MW 80°

TOP VIEW



velum DT AM
wireless
Ksenia
security innovation

Motion detectors velum wls are under 5 years warranty (3+2)

HOW TO ORDER
• KSI5402010.303

ACCESSORIES
• KSI5900003.003 - Rain protection

COMPLIANCE
• Europe - CE, RoHS
EAC



Technical data

• Power Supply	1 lithium battery pack 3.6V 2700mA included (2 years battery life)
• Maximum consumption	30mA
• Range	12m (room temperature 25°C)
• Width of covered area	25cm at 2m of distance, 130cm at 10m
• Detection distance	from 0.30m up to 12m
• Installation height	from 2.10m to 2.30m max on the wall
• Anti-masking analysis	Active Infrared LED
• Tamper	accelerometer
• Point of Detection	single, curtain beam (angle 7.5°)
• Horizontal coverage	IR 90°, MW 80°
• Vertical coverage	IR 7.5°, MW 32°
• Operating Temperature Range	from -20° C to +55° C
• Assembly	with angle bracket (reversible) and wall mounting
• Dimensions	38x129x40 mm (WxHxD)
• Weight	90 g
• Protection	IP54
• MW Range	adjustable via trimmer
• MW Analysis	selectable via software
• PIR Range	adjustable via trimmer and via software
• Signaling LED	five colors RGB, selectable via software

Quantity data

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Maximum number of wireless detectors	32	16	40	40	64	64