



code KSI5402011.303

### Description and functionalities

velum-C 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 6 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.

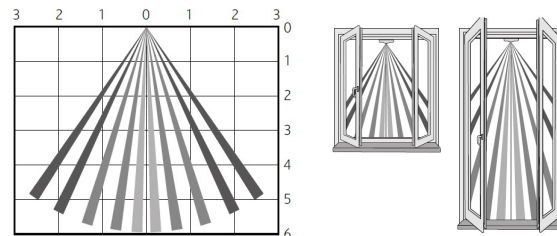
The accurate design and the digital signal processing of microwave make these sensors very stable and prevent from false alarms.

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

The outdoor curtain velum-C 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 tamper protection is ensured by an accelerometer and by a switch against the front opening.

### Coverage diagram

Max mounting height: 6m on the ceiling or the frame inside the windows.



velum-C wls detector is a curtain motion detector that can be installed on the ceiling with a 6m vertical flow. In this way, positioned at the center of the frame, it ensures its complete coverage, creating an insurmountable barrier to any intruder.



velum-C  
wireless  
**KS**

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

### Technical data

• Power Supply	1 lithium battery pack 3.6V 2700mA included (2 years battery life)
• Maximum consumption	30mA
• Range	6m (room temperature 25°C)
• Detection distance	0.30m up to 6m
• Anti-masking analysis	Active Infrared LED
• Tamper	accelerometer
• Point of Detection	single, curtain beam (angle 7.5°)
• Vertical coverage	IR 90°, MW 80°
• Operating Temperature Range	from -20° C to +55° C
• Installation height	from 2 up to 6m to the ceiling
• Assembly	ceiling mounting (with mounting bracket)
• 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

COMPLIANCE  
• Europe - CE, RoHS  
EAC

