

## PIR Motion Detector “*unum*” Wireless 868 MHz Bi-Directional



Professional Ksenia  
Wireless Technology



868 MHz Frequency  
Band



Full 2-way Encrypted  
Communication



Dynamic Power  
Management System



VLBL (Very Long  
Battery Life) Batt. Incl.



### OVERVIEW:

The most advanced Wireless Technology adopted by this device is fully ***Bi-Directional*** (each Peripheral works therefore as a Transceiver enabling each transmission to receive an Acknowledgment back, allowing a significant battery saving and assuring a superior reliability versus the classic mono-directional systems) and utilizes the frequency band at **868 MHz** (FSK Technology).

**A sophisticated control of the Transmission Power (*DPMS – Dynamic Power Management System*) allows to reduce interferences, maximize the battery duration according to the distance among the different devices and the type of installation. The maximum Protection of the entire system is guaranteed by means of a proprietary encryption of each Communication Packet.**

All wireless devices have a unique serial number which is being automatically acquired by the system during the installation phase; both the *basis* programming software and the *ergo* Keypad

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indicate in real time the signal level of each device and communication path in the case that more BUS Transceivers or Repeaters are present in the same architecture.

### TECHNICAL FEATURES:

**unum** wireless, is a digital **Dual-Optic** Motion Detector available in 2 versions, with and without Pet Immunity . The **unum**<sup>™</sup> wls are advanced professional sensors realized with the best available material and components. By all point of view, these detectors guarantee the highest reliability against false alarm. Additionally, unum are ***the only Detectors equipped by invisible and modern lens***, i.e. lens integrated within the detector front thanks to the **E.L.T.<sup>™</sup> (Embedded Lens Technology)** which, taking advantage from decade of experience in professional lens design, utilizes the same lens material for the detector front too.

The Motion sensor is a **dual PIR Digi Pyro<sup>™</sup> con high Quality EvenEye<sup>™</sup> Lens**.

Thanks to the Bi-Directional wls Technology, **the range selection (6 or 12 m.) and the number of impulses programmable directly from the basis software with no need of selecting jumpers or annoying dip-switches; furthermore it's possible to modify the configuration with no need to re-open it.**

Additionally it is possible **to deactivate the PIR sensor when the system is disarmed (default setting) so as to reduce drastically the current consumption** with consequent increase of the battery life.

Instead, with particular reference to Home-Automation applications, it is possible to program the PIR sensor to be always powered.

As all the other Ksenia wireless devices, the unum wireless motion detector implements the **DPMS transmission power control as well as the possibility to program the supervision frequency from a minimum of 1 minute to a max. of 4 hours (default programming each 5 min.),**

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the battery Control Status ( with event transmission when its substitution is required) on top of integrating the wall-tamper and anti-opening protections.

### TECHNICAL DATA:

- **IR Sensor:** Dual Element Digi Pyro;
- **Power:** 1 CR123A Lithium battery included for a maximum battery life up to 4 years;
- **RF Immunity:** 20 V/m, 10-1000 MHz;10 V/m, 1-2 Ghz;
- **White Light Immunity:** 6500 lux;
- **Sensitivity:** adjustable at 2 or 3 impulses;
- **Coverage:** 12 m. range;
- **Operational Frequency :** 868 MHz;
- **Open Air Range:** up to 400 m.;
- **Operative Temperature Range:** from +5°C to +40° C
- **Materials:** Base: ABS Front: HDPE;
- **Dimensions:** 113 x 60 x 45 mm ( A x L x P ).

FULLY  
SUPERVISED  
MULTI-  
RECEIVERS  
SYSTEM

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### CERTIFICATIONS

Country	Certifications	PIR motion detector <i>unum</i> ™
Europa	CE	

### PARTS INCLUDED:

product	quantity	component
	1	CR123A Battery
	1	Quick Installation Guide in EN/IT

### HOW TO ORDER:

**KSI5201000.300**  
**KSI5201100.300 Pet Immune**



*unum*™ has been designed and manufactured for the environment as follows:

- Absence of PVC
- PCB laminates free from Brome and Lead
- Low adsorbtion
- Packaging realized mainly with recycled fibers and materials

