

CL-1212 QUAD+™\*\*

SUREN

## PIR Motion Sensor



### QUAD+™\*\*

#### Superior All-Direction Detection

- ❑ **4-Element Interlocking Pyroelectric IR Detector**
- ❑ **High-efficiency Fresnel Lens**
  - Maximum optical signal strength
  - Attractive appearance
- ❑ **224-field-of-view Lens/Detector System**
  - Staggered layout for best detection
  - Alternating polarity for strong signals
- ❑ **Stable and Reliable Sensor Electronics**
  - 100% surface-mount components
  - No aluminum electrolytic capacitors

*Large-Area Motion Detection!*

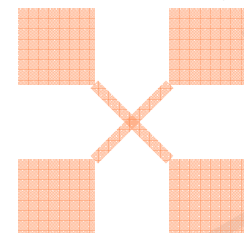
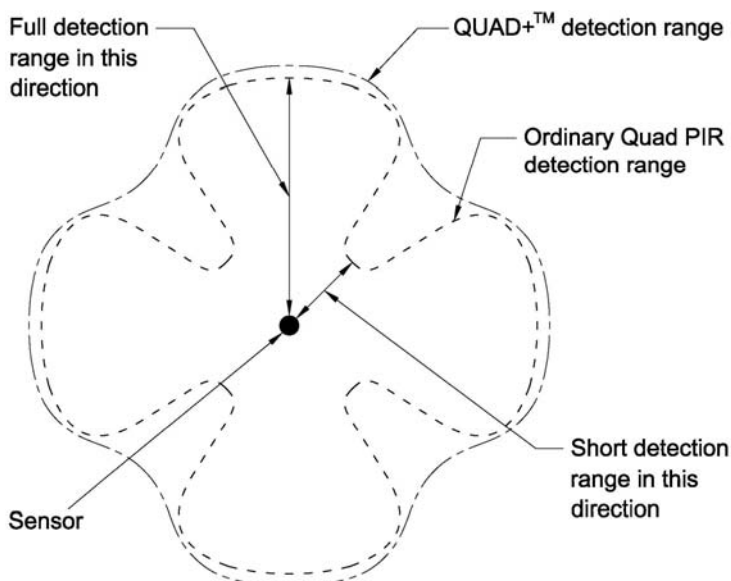
#### Lighting/comfort control

- ❑ Open-Cubicle areas
- ❑ Offices
- ❑ Intelligent Home

#### False Detection Immunity

- ❑ **Air-Draft Protected Opto-electronics**
  - Sealed optics around detector
  - Detector-lead cover
- ❑ **Three-Stage White Light Protection**
  - White diffusing lens
  - Clear bug guard – less light concentration
  - Large white-light filter on detector window

*\*\* U.S. Pat. 7,579,595; continuation-in-part and additional patents pending worldwide.*



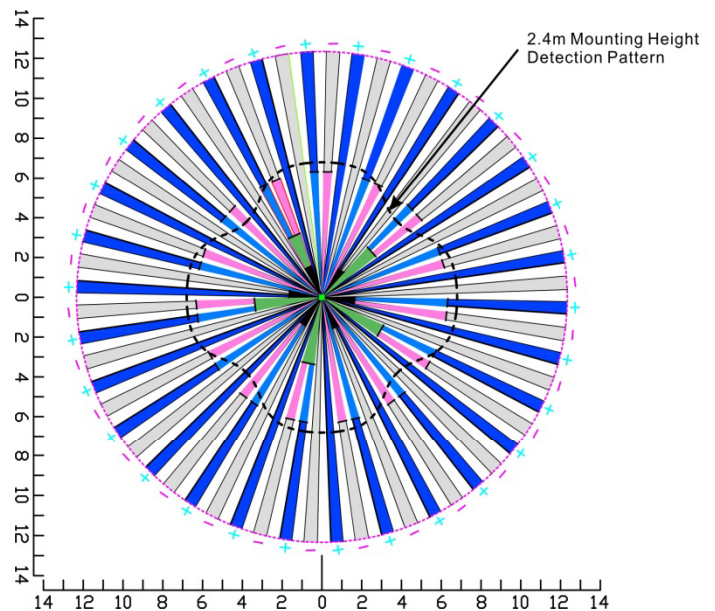
4-Element Interlocking Detector

## Product Features

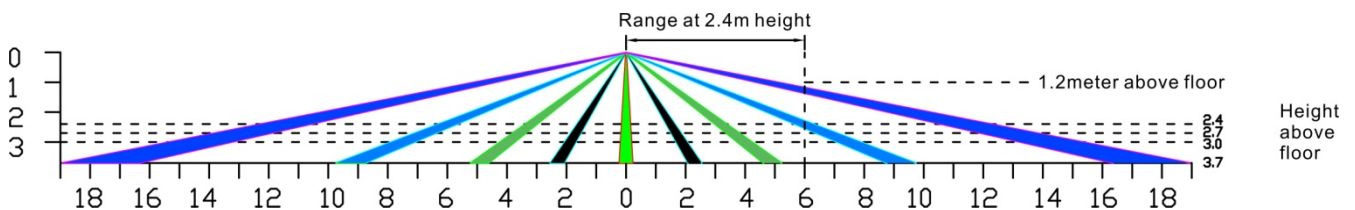
- ❑ **QUAD+™\*\* 4-Element IR Detector** and patent-pending DSP detection work together for reliable detection within a 16-meter circle.
- ❑ 16A relay output to control external contactors
- ❑ Adjustable 5s-30m setting for relay "ON" time
- ❑ Sunset sensor to enable lighting only when ambient light is low
- ❑ Wide operating temperature range (-40°C to +55°C)
- ❑ Microcontroller temperature analysis for best summertime detection
- ❑ Tightly-mated bug guard to protect the sensor optics from insects, spiders and dust
- ❑ Spring clips for mounting in drop ceiling

## Optical View Pattern

Top View



Side View



## Specifications

Relay:	Dual-contact, high-inrush, 250V, 16A			
Detection Range:	Sensor mounted at 2.4m height within 16m circle			
Power Supply:	85-265Vac			
RF Immunity:	20 V/m 10 – 1000 MHz; 10 V/m 1000-2000 MHz			
Temperature Range:	-40°C to +55°C			
Approvals	UL. CE. CCC (Pending)			
Height range:	2.3 - 4 m			
Housing:	High-impact ABS			
Dimensions:	128mm overall height; 73mm diameter; 25mm below drop ceiling			
Optical fields-of-view (as combined)	Long Range	Mid Range	Short Range	Look-down
	120(60)	60(30)	20	24

All specifications are subject to change without notice.