

CL-106PL PYROFLEX™ \*\*

SUREN

PIR Motion Sensor  
LonWorks™



*Energy-saving  
Lighting Control!*

**Reliable Detection**

- ❑ **High-efficiency Spherical Lens**
  - Maximum optical signal strength
  - Attractive appearance
- ❑ **122-field-of-view Lens/Detector System**
  - Staggered layout for best detection
  - Alternating polarity for strong signals
- ❑ **Stable and Reliable Detector Amplifier**
  - 100% surface-mount components
  - No aluminum electrolytic capacitors in amplifier circuitry

**Wide Temperature Range**

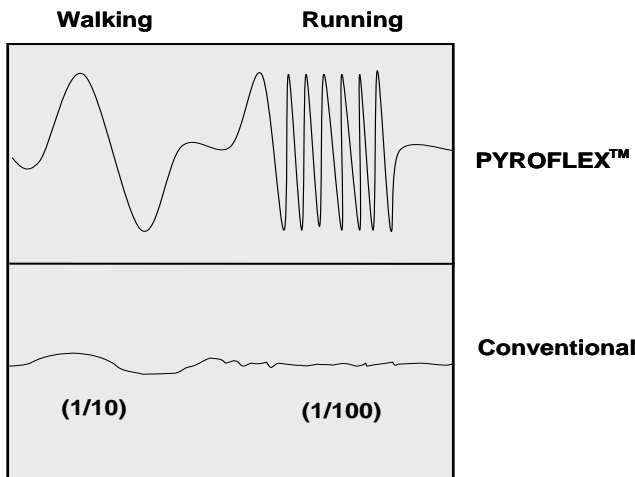
- ❑ **Operation from -30°C to +55°C**

**Easy Installation**

- ❑ Spring clips for mounting in drop ceiling
- ❑ Trim ring for mounting on solid ceiling
- ❑ Knock-out holes for mounting and wiring

**False Detection Immunity**

- ❑ **PYROFLEX™ \*\* IR Detector**
  - 10x – 100x more signal than ordinary detectors; less amplification needed
  - High immunity to shock, white light, temperature changes, RF, electrical surges
- ❑ **Three-Stage White Light Protection**
  - White diffusing lens
  - Clear bug guard – less light concentration
  - Large white-light filter (on 4 x 5mm detector window) – detector elements far from filter

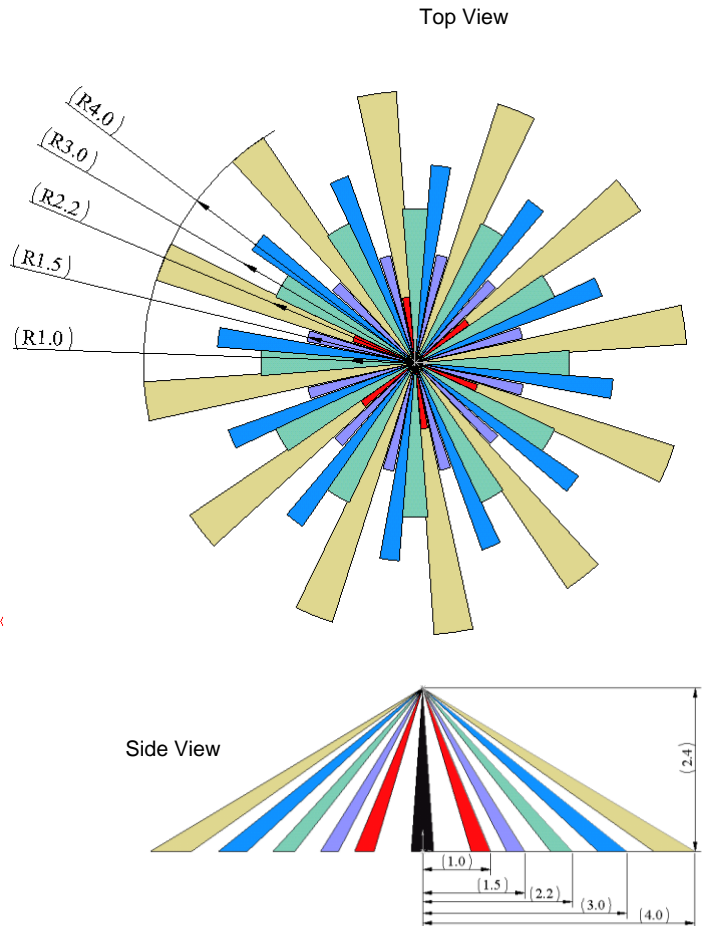


\*\* U.S. Patent NO: 7,042,134 7,141,910  
U.K. Patent NO: GB 2 427 270  
Patents pending worldwide.

## Optical View Pattern

### Product Features

- PYROFLEX™** infrared detector and advanced **HighBar™** detection work together for consistent detection sensitivity throughout the monitored area
- Auxiliary small-signal relay, controllable via the LON or locally by the sensor
- Sunset sensor (LON-available) to enable lighting only when ambient light is low
- Wide operating temperature range (-30°C to + 55°C)
- Power from transformer/coupler remote junction box; can support several sensors on 12Vdc bus \*
- Tightly-mated bug guard to protect the sensor optics from insects, spiders and dust
- Selectable detection sensitivity (standard/verified) for different environmental requirements



### Specifications

Detection Range:	6m circle with sensor mounted at 2.4m height.			
Power Supply:	DC Voltage / Current		AC Voltage (transformer/coupler)	
	8-16 Vdc / 20 mA 40-250mA network-active		Standard mains voltages	
LonWorks™	Preset Standard Network Variable for Occupancy Sensor			
Neuron	PL3120			
RF Immunity:	20 V/m 10 – 1000 MHz; 10 V/m 1000-2000 MHz			
Sensitivity:	1-event/2.5 C or 2-event/3.0 C			
Temperature Range:	-30°C to +55°C			
Height range:	2.3 - 6.0 m			
Housing:	High-impact ABS			
Dimensions:	38mm overall height; 93mm diameter; 25mm below drop ceiling			
Optical fields-of-view	Long Range	Mid Range	Short Range	Look-down
	48	48	16	10

All specifications are subject to change without notice.