

CL-106FT PYROFLEX™**

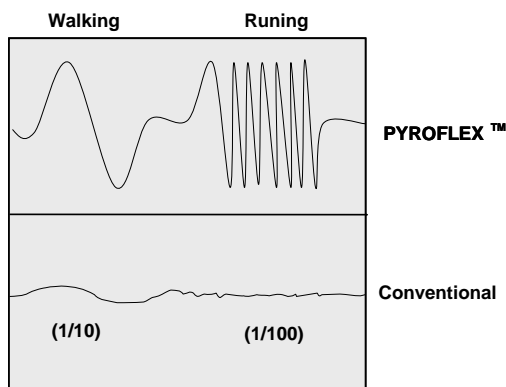
SUREN

PIR Motion Sensor

LonWorks™



*Energy-saving
Lighting Control!*



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

Reliable Detection

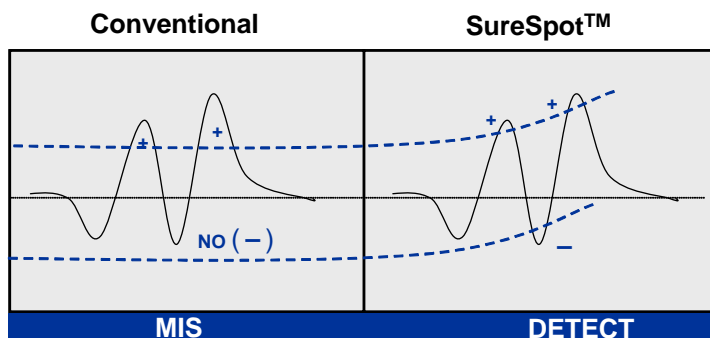
- High-efficiency Spherical Lens**
 - Maximum optical signal strength
 - Attractive appearance
- 122-field-of-view Lens/Detector System**
 - Staggered layout for best detection
 - Alternating polarity for strong signals
- Stable and Reliable Sensor Electronics**
 - 100% surface-mount components
 - No aluminum electrolytic capacitors
 - Summertime detection in near-human temperature environments

False Detection Immunity

- PYROFLEX™** IR Detector**
 - 10x – 100x more signal than ordinary detectors; less amplification needed
 - 10x – 100x less gain for false alarms
 - High immunity to shock, white light, temperature, 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

Wide Temperature Range

- Operation from -40°C to +55°C**



Easy Installation

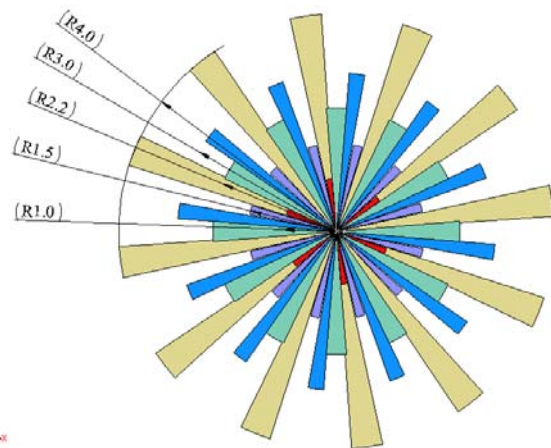
- Spring clips for mounting in drop ceiling
- Trim ring for mounting on solid ceiling
- Knock-out holes for mounting and wiring

Product Features

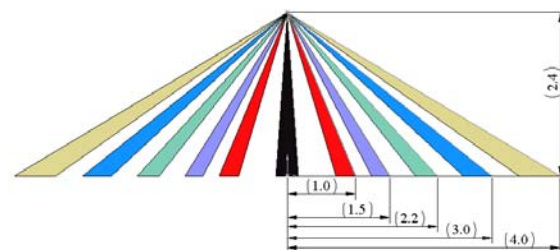
- ❑ **PYROFLEX™** infrared detector and advanced **SureSpot™** detection work together for consistent detection sensitivity throughout the monitored area
- ❑ Auxiliary small-signal relay, controllable via the LON or locally by the sensor
- ❑ Adjustable 5s-30m setting for local relay “ON” time
- ❑ Sunset sensor (LON-available) 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
- ❑ Selectable detection sensitivity (standard/verified) for different environmental requirements

Optical View Pattern

Top View



Side View



Specifications

Detection Range:	6m circle with sensor mounted at 2.4m height.			
Power Supply:	8-16 Vdc / 20 mA			
LonWorks™	Preset Standard Network Variable for Occupancy Sensor			
Neuron	FT3120			
RF Immunity:	20 V/m 10 – 1000 MHz; 10 V/m 1000-2000 MHz			
Sensitivity:	1-event or 2-event			
Temperature Range:	-40°C to +55°C			
Qualifications	EN 50131-2-2 Grade-2			
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.