

CL-106FT PYROFLEX™**

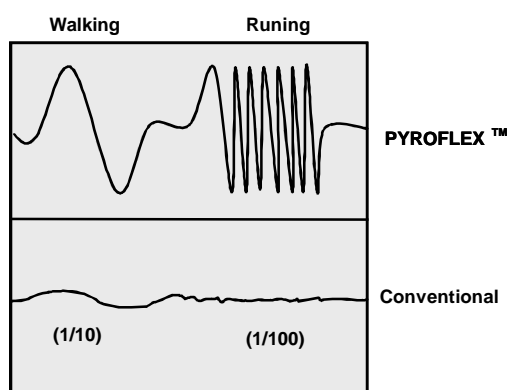
SUREN

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

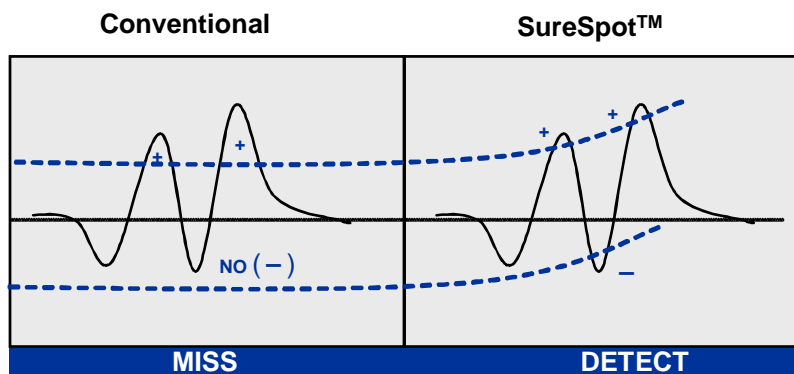
- q **High-efficiency Spherical Lens**
 - Maximum optical signal strength
 - Attractive appearance
- q **122-field-of-view Lens/Detector System**
 - Staggered layout for best detection
 - Alternating polarity for strong signals
- q **Stable and Reliable Sensor Electronics**
 - 100% surface-mount components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

False Detection Immunity

- q **PYROFLEX™**IR Detector**
 - 10x – 100x more signal than ordinary detectors; less amplification needed
 - High immunity to shock, white light, temperature changes, RF, electrical surges
- q **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

- q **Operation from -40°C to +55°C**



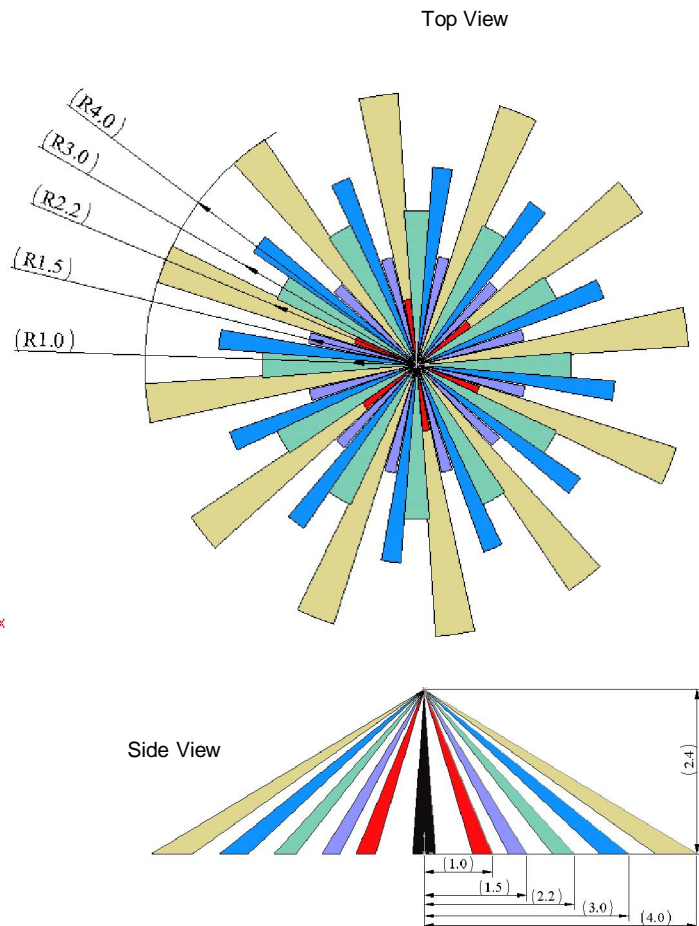
Easy Installation

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

Product Features

- q **PYROFLEX™** infrared detector and advanced **SureSpot™** detection work together for consistent detection sensitivity throughout the monitored area
- q Auxiliary small-signal relay, controllable via the LON or locally by the sensor
- q Adjustable 5s-30m setting for local relay "ON" time
- q Sunset sensor (LON-available) to enable lighting only when ambient light is low
- q Wide operating temperature range (-40 °C to + 55 °C)
- q Microcontroller temperature analysis for best summertime detection
- q Tightly-mated bug guard to protect the sensor optics from insects, spiders and dust
- q Selectable detection sensitivity (standard/verified) for different environmental requirements

Optical View Pattern



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/2.5 C or 2-event/3.0 C			
Temperature Range:	-40°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.