

CX-806 PYROFLEX™**

X-TEC Motion Sensor

SUREN



Microwave Doppler technology plus **PYROFLEX™****

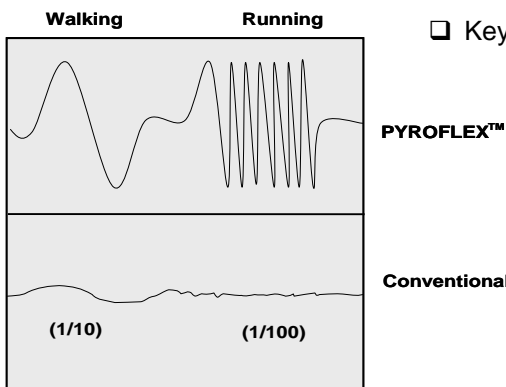
Together, they create **X – TEC™** high performance!

Superior False Alarm Immunity

- ❑ **Reliable 10 GHz Microwave** Doppler technology plus digital signal processing
 - Detects intruders, not distractions
 - De-emphasis of constant motion signals, as from fans
 - Digital filtering of fluorescent light frequencies, 50/60 Hz selectable
- ❑ **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
- ❑ Key-parameter supervision, with Failure Indication

Models Available:

- CX-806
- CX-806E (Europe)



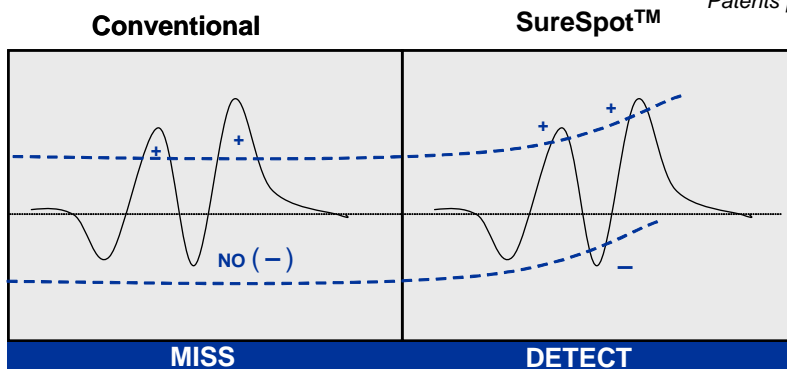
Reliable Detection

- ❑ **SureSpot™** microcontroller waveform processing finds intruder signals among the complex curves and dips of real-world signal waveforms
- ❑ Robust planar-antenna microwave transceiver delivers strong intruder detection signals
- ❑ Summertime detection in near-human temperature environments

Temperature Range

- ❑ Operation from -10°C to +55°C

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



Product Features

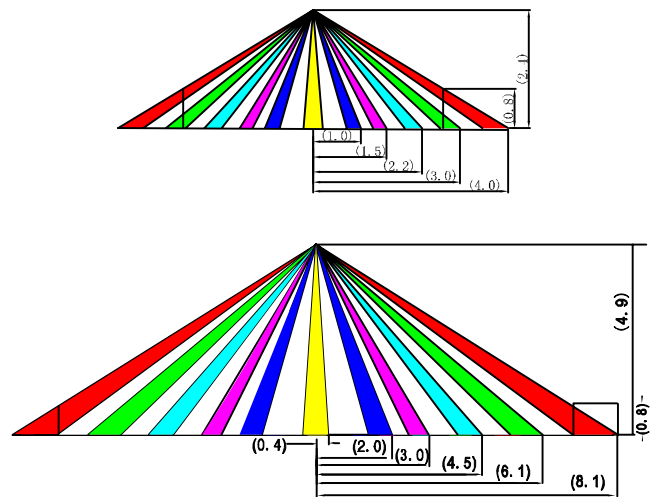
- Look-down detection directly below the sensor to catch wall-creeping intruders
- Precise factory calibration for dependable performance of every sensor
- Multiple white light immunity features:
 - Clear bug guard – no light concentration
 - White diffusing lens
 - Large IR detector window (4.2 x 5.2 mm)
- Consistent detection sensitivity throughout the monitored area
- Tightly-mated bug guard to protect the sensor optics from insects, spiders and dust
- Selectable processing sensitivity for different environmental requirements
- Sensitive tamper detection switch
- Full-time supervision of microwave function
- Automatic single-technology operation if one technology fails
- Continuous supervision of:
 - Power supply voltage
 - Ambient temperature
 - IR detector operational parameters
- Failure indication:
 - Blinking LED
 - Non-closing of alarm relay after any alarm signal event (Note: sensor will NOT initiate an alarm upon failure.)
- Remote LED Enable control input

Easy Installation

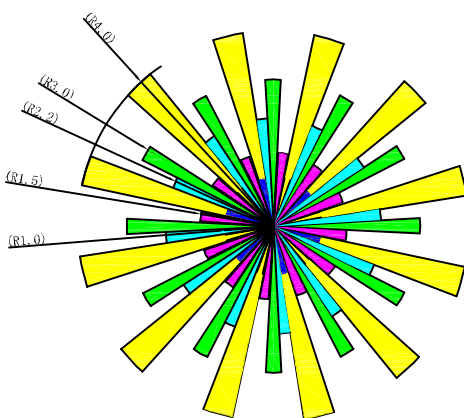
- 10-minute zone finder mode
- Deep wire channels and dual cable entry
- 45-degree corner-mounting surfaces
- Knock-out holes for mounting and wiring
- Swivel-mount accessory interface
- 3 LED colors: Alarm, PIR, Microwave

Optical View Patterns

(Side view, in meters)



(Top view, in meters, 2.4m mounting height)



All specifications are subject to change without notice.

Specifications

Range:	6m circle with sensor mounted at 2.4m height.			
Microwave frequency	9 – 11 GHz, according to country where sold			
Power Supply:	Voltage	Current		
	8 – 16 Vdc	16 mA at 12 Vdc		
Alarm Relay:	Solid state Form A (NC) 50 mA 30 V; 1500 Vrms iso.			
Tamper Switch:	Form A (NC) 50 mA @ 30 Vdc			
RF Immunity:	20 V/m 10 – 1000 MHz; 10 V/m 1-2 GHz			
Sensitivity:	2-event/1.5 C or 3-event/2.0 C			
Qualifications	(Europe) EN50131-2-4 Grade-2			
Temperature Range:	-10°C to +55°C			
Housing:	High-impact ABS			
Dimensions:	Φ 128 x 40 mm (Dia. x D)			
Optical fields-of-view	Long Range	Mid Range	Short Range	Look-down
	48	48	16	10