

# Detectors

passive infrared receiver

## Octopus EP



### INDUSTRIAL / COMMERCIAL / RESIDENTIAL

#### Quad Element 360° Ceiling PIR Detector

##### Main Features

- Ceiling mounted
- Interlocking Quad Element Pyro-electric Sensor
- Detection range up to 12m in diameter
- Patented Independent Floating Thresholds (IFT)
- Adjustable sensitivity settings
- Automatic Temperature Compensation
- Sealed Optics
- ABS Plastics

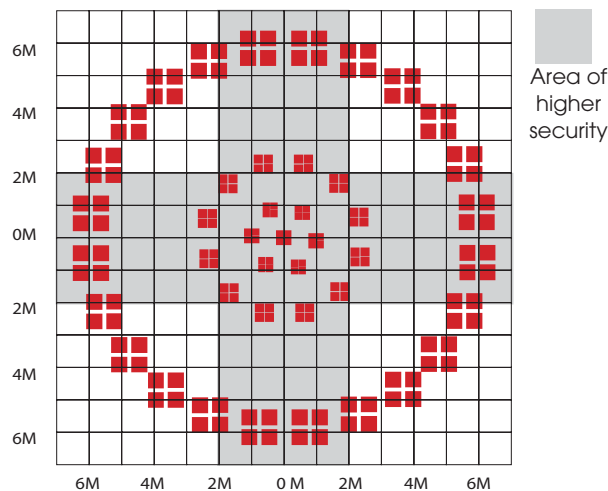
##### Product Features

Features	Description	Benefits
Patented Independent Floating Thresholds (IFT)	This technology patented by Pyronix allows the detector to respond to the environmental changes by automatically adjusting its levels of immunity to background disturbances.	Greater stability, reduces risk of false alarm activations
Automatic Temperature Compensation	When the product is used in a hot environment this technology automatically adjusts the detectors sensitivity allowing it to retain its range even when the external temperature equals the external body temperature of 32°C.	Guarantees optimum performance at all times
Adjustable sensitivity settings	High sensitivity setting for use in areas where fast detection is required. Adjustable sensitivity for installation in a more hostile environment.	Ensures suitability for most environments
Sealed Optics	Protects from possible infestation from insects, shields air movement in front of the pyro-electric sensor and protects against adverse reflections from inside the detector housing.	Enhances the focus of the pyro-electric sensor
ABS Plastics	3mm polished finish, reduces electrostatic interference on the PIR sensor.	Easy to clean, retains white finish.

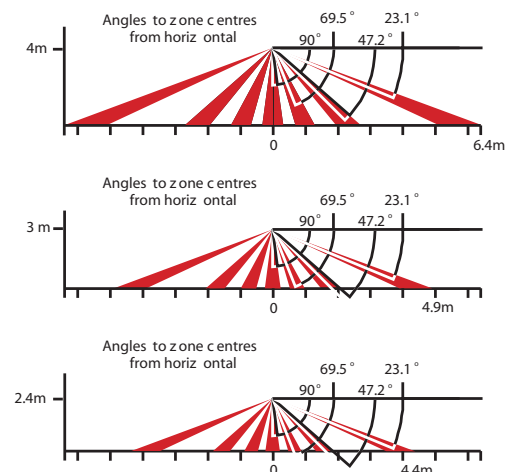
##### Lens Coverage

##### Supplied

COVERAGE PATTERN PLAN VIEW

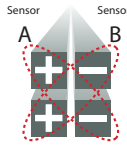


Ceiling 360° Lens



## Pyronix Interlocking Quad Element

The Octopus EP has a special Pyro-electric sensor with interlocking elements. The elements are positioned so that an intruder walking in any direction through the detectors field of view will directly cross a positive or negative zone.



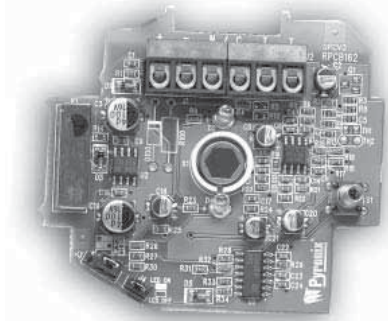
### Technical Specification

ELECTRICAL	
Operating Voltage	9 - 16VDC (12v nominal)
Current Consumption - No Alarm State	14mA (12V nominal)
Current Consumption - Alarm State	11mA (12V nominal)
Relay	Magnetically Shielded
Relay Output	60VDC, 50mA, Protected 3.3 Ohm
Tamper Switch	12V max, 50mA max
RFI Immunity to Continuous Wave (CW) 80-2000MHz	50V/m
RFI Immunity to Amplitude Modulation (AM) 80-2000MHz	20 V/m
RFI Immunity to Pulse Modulation (PM) 80-2000MHz	20 V/m

OPERATING FEATURES	
Alarm period of	2.5 seconds
Detection Speed	0.3 - 3m/s
Operating Temperature	-30°C to +70°C
Storage Temperature	-40°C to +80°C

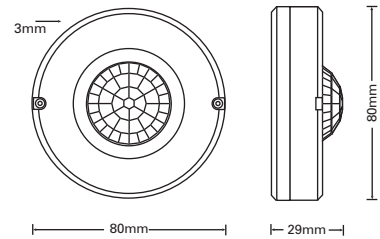
OPTICAL	
Lens	Fresnel array, 'Grooves in' infrared compensated
Protection	Ultraviolet Light Filter

MOUNTING	
Optimum Coverage Height	1.8-4m



### Weights & Dimensions

**Kg** = 70g

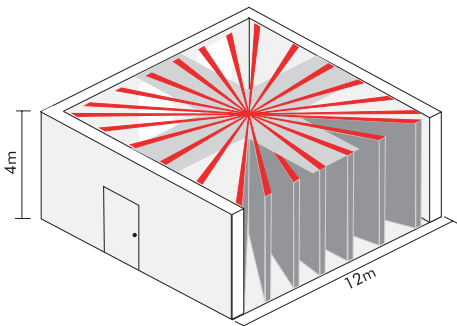


**Boxed Weight** 100g  
**Boxed Dims** 83x98x32mm

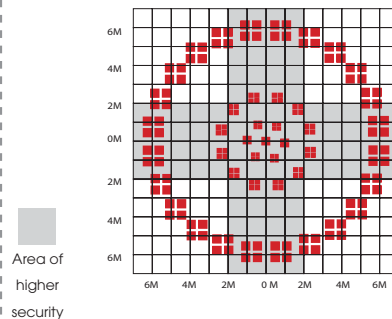
### Applications

Features	Applications
360° Lens	This ceiling mounted detector with a 360° lens provides ideal coverage for obscured areas and is less likely to be concealed by furniture, office partitions. The interlocking PIR Sensor, the area of higher sensitivity is as shown on the diagram below in the form of a cross. Ensure that the cross is pointed to possible access points, such as doors or windows.

### 360° Lens

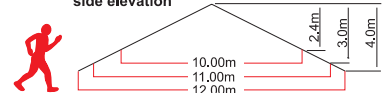


COVERAGE PATTERN PLAN VIEW

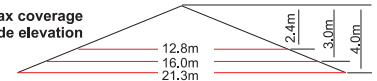


Area of higher security

Effective coverage side elevation



Max coverage side elevation



COMPLIANCE	PYRONIX PRODUCT CODE
Europe	FP02302
China	FP02302 CN
Russia	FP02302

PACKING INFORMATION	ACCESSORIES	PYRONIX PRODUCT CODE
Min Pack: 10	N/A	
Pack Weight: 1.7kg		
Warranty: 5 Years		
Manufactured: UK		

As part of the continued development programme  
specifications may change.

Matrix, PCX, Sterling, Vocaliser, KX, Colt, ME, Magnum, Kudos, Octopus,  
Eclipse, Veritec, Break Glass 2000, Twin Alert, Belle and Decibell are all  
trade marks of Pyronix Ltd