

# Detectors

passive infrared receiver



## Kudos

### INDUSTRIAL / COMMERCIAL

### Long Range Dual Element Digital PIR Detector

#### Main Features

- Dual Element Pyro-electric Sensor
- Supplied with 3 Interchangeable Lenses
- Volumetric coverage adjustable up to 20m
- Horizontal curtain coverage adjustable up to 25m
- Long Range coverage adjustable up to 45m
- Patented Independent Floating Thresholds (IFT)
- Adjustable sensitivity settings
- Digital Temperature Compensation
- Active Self Test
- Remote Self Test Input
- Multi-Angular LED Indication
- Sealed Optics
- Bracket Included
- ABS Plastics

#### Product Features

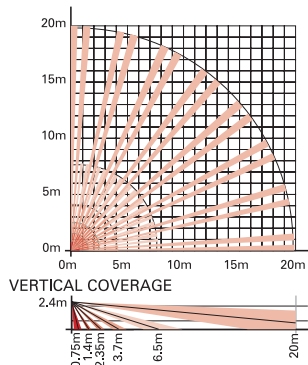
Features	Description	Benefits
Adjustable sensitivity settings	High sensitivity for use in areas where fast detection is required Adjustable sensitivity settings for installations in a more hostile environment	Ensures suitability for most environments
Patented Independent Floating environmental Thresholds (IFT)	This technology patented by Pyronix allows the detector to respond to the changes by automatically adjusting its levels of immunity to background disturbances.	Greater stability, reduces risk of false alarm activations
Digital Temperature Compensation	When the product is used in a hot environment this technology digitally 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
Active Self Test	If there is no activation after a 5 hour period the Kudos will actually self test both the PIR and microwave	Unique to Pyronix, this ensures that the detector is always operating effectively
Remote Self Test	The same self test can be initiated at any time by using a compatible control panel. When the self test is carried out remotely the PIR relay will open momentarily when the detector is functioning correctly.	Panel will log all activated detectors saving engineer test time
Multi-Angular LED Indication	A clear plastic pipe channels the light from the LED to the face of the detector making the LED indication highly visible from a multitude of angles.	Enables walk testing to be undertaken with ease and accuracy
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 Easy to clean, retains white finish.
ABS Plastics	3mm polished finish, reduces electrostatic interference on the PIR sensor,	

#### Lens Coverage

#### Supplied

##### 20m Volumetric

Coverage at Maximum Range  
HORIZONTAL COVERAGE

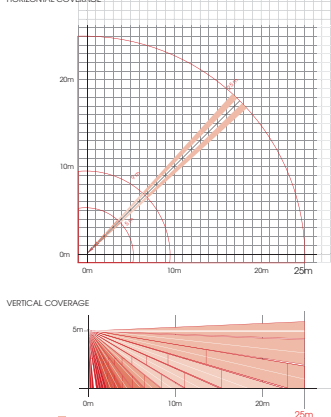


85°  
12 ZONES  
7 PLANES



##### 25m Curtain

Coverage at Maximum Range  
HORIZONTAL COVERAGE

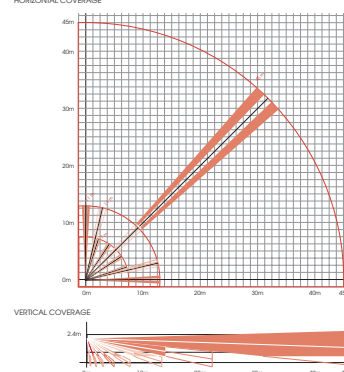


20°  
12 ZONES  
6 PLANES



##### 45m Long Range

Coverage at Maximum Range  
HORIZONTAL COVERAGE



7°  
21 ZONES  
6 PLANES



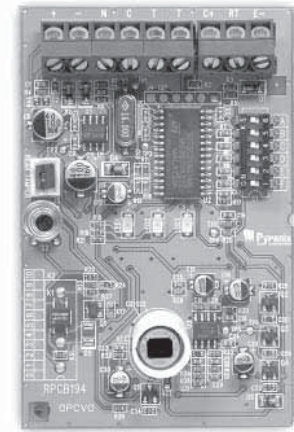
## Pyronix Dual Element

The Kudos has a pyro-electric sensor containing two sensing elements and when projected through a lens form zones as illustrated on the right. In order for an alarm to be triggered two or more of these zones would need to be crossed.



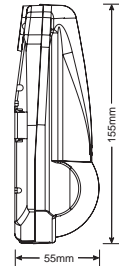
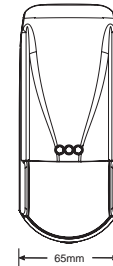
## Technical Specification

ELECTRICAL	
Operating Voltage	9 - 16VDC (12v nominal)
Current Consumption - No Alarm State	22mA (12V nominal)
Current Consumption - Alarm State	23mA (12V nominal)
Relay	Solid State
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	
White Light Filter	6500 Lux
Optics	Sealed
Lens	Fresnel array, 'Grooves in' infrared compensated
Protection	Ultraviolet Light Filter
Tilt Adjustment	0° - 12°
MOUNTING	
Optimum Coverage Height	5m



## Weights & Dimensions

79.2 g  
without bracket



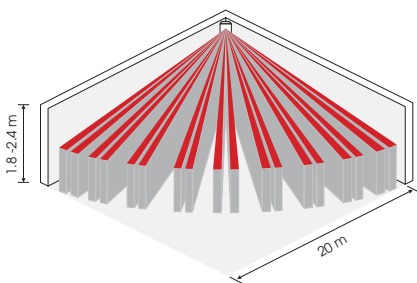
Boxed Weight  
Boxed Dims

180g  
207x69x58mm

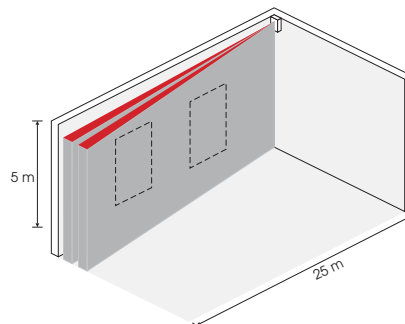
## Applications

Features	Applications
5m Mounting Height	As the mounting height is almost double that of a standard PIR, the Kudos ideal in commercial environments such as car showrooms and department stores. The option of a 45m lens enables the Kudos to offer protection in large areas.

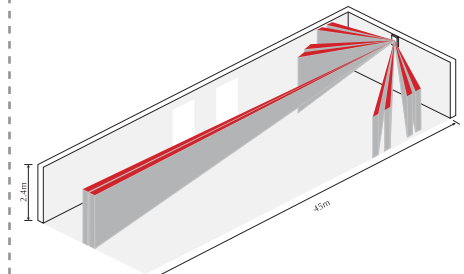
20m Volumetric



25m Curtain



45m Long Range



COMPLIANCE	PYRONIX PRODUCT CODE
Europe	FP16300
China	FP16300CN
Denmark	FP16300
Russia	FP16300
Italy	FP16300IT

PACKING INFORMATION	ACCESSORIES	PYRONIX PRODUCT CODE
Min Pack: 10	K-TAMPER	FP16310
Pack Weight: 1.875kg		
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,  
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