Detectors
dual technology detectors

Kudos DT+

COMMERCIAL / INDUSTRIAL

Digital Combined Dual Element PIR and Microwave Detector

Main Features

- Dual Element Pyro-electric Sensor
- 20m Detection Range
- AND / OR Technology
- Patented Independent Floating Thresholds (IFT)
- Adjustable Sensitivity Settings
- Digital Temperature Compensation
- Active Self Test
- Remote Self Test Input
- Mirror Creep Zone
- Triple LED Indication
- Frequency Options
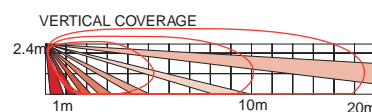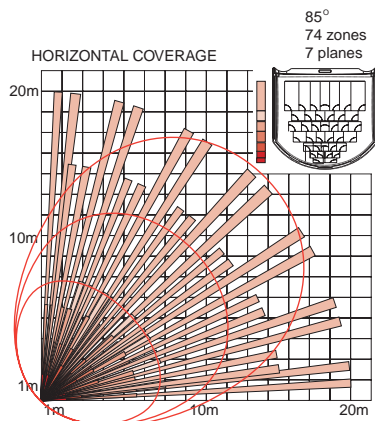- X-band DRO Based Microwave
- Sealed Optics
- ABS Plastics

Product Features

Features	Description	Benefits
AND / OR Technology	'AND' mode operates as a standard dual technology detector. 'OR' mode can switch to microwave detection only to overcome cloaking attempts and the traditional vulnerability of PIR detection in environments where the ambient temperature is equal to body temperature.	Overcomes cloaking attempts and therefore is ideal in high security environments
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
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
Digital Temperature Compensation	When the product is used in a hot environment this technology digitally adjusts the detector's sensitivity allowing it to regain 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 DT+ 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
Triple LED indication	Microwave- orange, PIR – green, alarm - red	The technology activated can be easily identified
Frequency options	The Kudos DT+ is available in 3 different frequencies	Eliminates the risk of 'cross talk' between detectors located within the same room / environment
X-band DRO based microwave	Metalised microwave housing	Eliminates back lobe radiation
ABS Plastics	3mm polished finish, reduces electrostatic interference on the PIR sensor	Easy to clean, retains white finish

Detectors

Lens Coverage

Supplied
20m Volumetric

85°
74 zones
7 planes

HORIZONTAL COVERAGE

20m

10m

1m
1m   10m   20m

VERTICAL COVERAGE
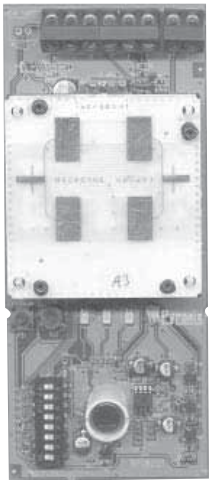
2.4m

1m   10m   20m

Pyronix Dual Element

The Kudos DT+ 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.
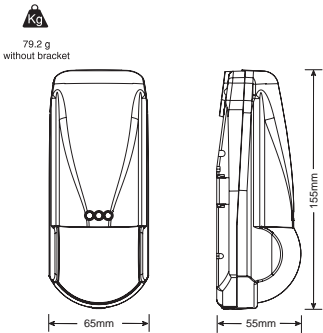
Technical Specifications

ELECTRICAL	
Operating Voltage	9 - 16VDC (12v nominal)
Current Consumption - No Alarm State	38mA (12V nominal)
Current Consumption - Alarm State	45mA (12V nominal)
Relay	Solid State
Relay Output	60VDC, 50mA, Protected 3.3 Om
Tamper Switch	12V max, 50mA max
RFI Immunity to Continuous Wave (CW) 10-1000MHz	50 V/m
RFI Immunity to Amplitude Modulation (AM) 80-2000MHz	20 V/m
RFI Immunity to Pulse Modulation (PM) 80-2000MHz	20 V/m
DTI approved frequencies	10.680, 10.687, 10.695GHz
FCC approved frequencies	10.515, 10.525, 10.535GHz
PTT approved frequencies	9.87, 9.90, 9.91GHz

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	1.8-2.4m

Weights & Dimensions

79.2 g
without bracket
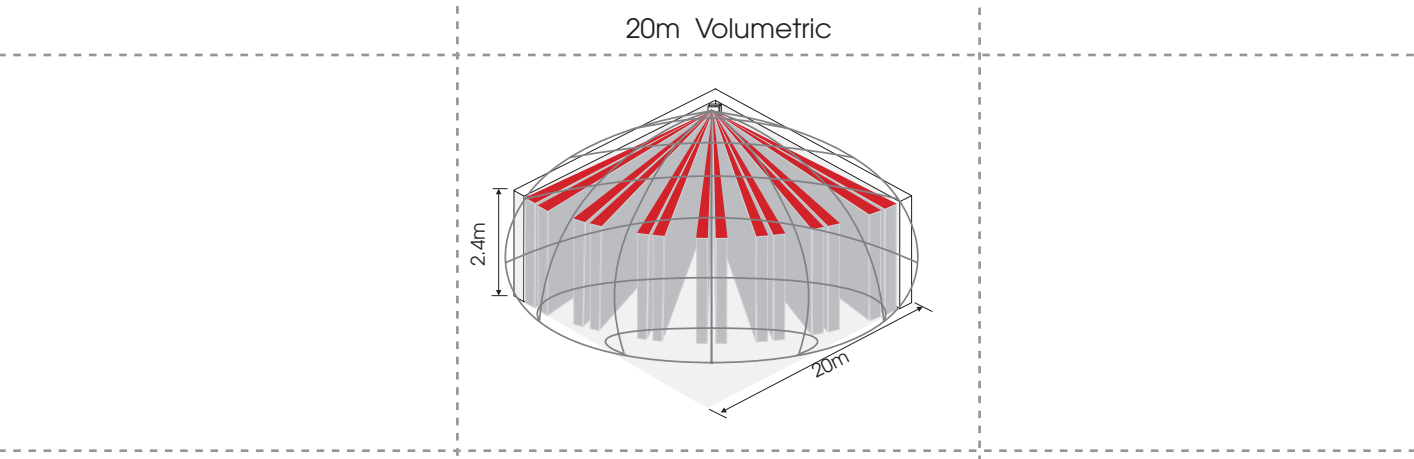
65mm   155mm   55mm

Applications

Features	Applications
AND / OR technology	In high security environments where there is a risk of PIR detection being blocked, the Kudos' in-built intelligence enables it to switch to microwave detection only. The Kudos will overcome any cloaking attempts masking IR radiation and software algorithms add MW stability to detect genuine intruder movement.

20m Volumetric

2.4m

20m

COMPLIANCE		PYRONIX PRODUCT CODE		PACKING INFORMATION		ACCESSORIES	PYRONIX PRODUCT CODE
Europe	C€	FP16300		Min Pack:	10	K-Tamper	FP16310
Italy		FP16300IT		Pack Weight:	2.06kg		
				Warranty:	2 Years		
				Manufactured:	UK		

For use in EN50131-1 Systems - Environmental Class 2 Security Grade 2

As part of the continued development programme
specifications may change.