

Detectors

dual technology detectors

Kudos DT

INDUSTRIAL / COMMERCIAL

Digital Combined Dual Element PIR and Microwave Detector



Main Features

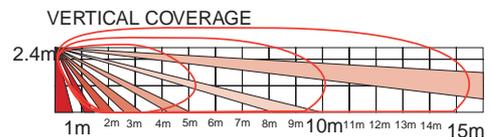
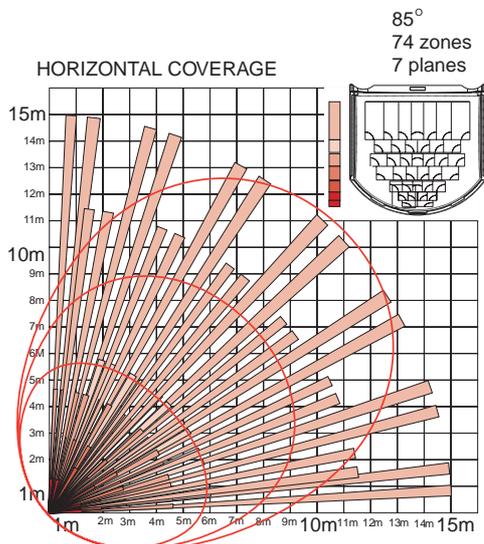
- Dual Element Pyro-electric Sensor
- 15m Detection Range
- AND / OR Technology
- Patented Independent Floating Thresholds (IFT)
- Adjustable Sensitivity Settings
- Digital Temperature Compensation
- Mirror Creep Zone
- Triple LED Indication
- Frequency Options
- X-band DRO Based Microwave
- Sealed Optics
- 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
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

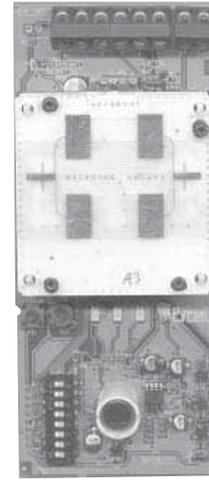
Supplied

15m Volumetric



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	30mA (12V nominal)
Current Consumption - Alarm State	34mA (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	75 V/m
RFI Immunity to Amplitude Modulation (AM) 10-1000MHz	25 V/m
RFI Immunity to Pulse Modulation (PM) 10-1000MHz	25 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

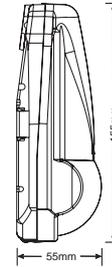
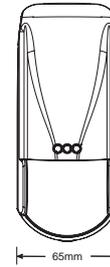
OPERATING FEATURES	
Alarm period of	2.5 seconds
Detection Speed	0.3 - 3m/s
Operating Temperature	-30°C to +70°C
Storage Temperature	-40°C to +80°C

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

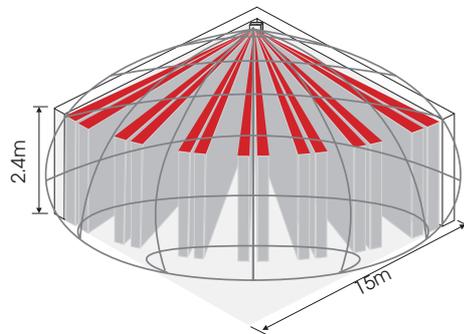
79.2 g
without bracket



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.

15m Volumetric



COMPLIANCE	PYRONIX PRODUCT CODE
Europe	FP16300
Italy	FP16300IT

PACKING INFORMATION	ACCESSORIES	PYRONIX PRODUCT CODE
Min Pack: 10	K-Tamper	FP16310
Pack Weight: 2.01kg		
Warranty: 2 Years		
Manufactured: UK		

As part of the continued development programme
specifications may change.

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