

Detectors

dual technology detectors

Kudos AM

INDUSTRIAL / COMMERCIAL / RESIDENTIAL

Digital Combined Dual Element PIR and Microwave Anti Masking Detector

Main Features

- Dual Element Pyro-electric Sensor
- 15m Detection Range
- Independent Mask Relay
- 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



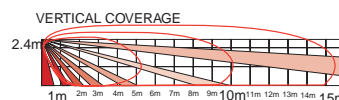
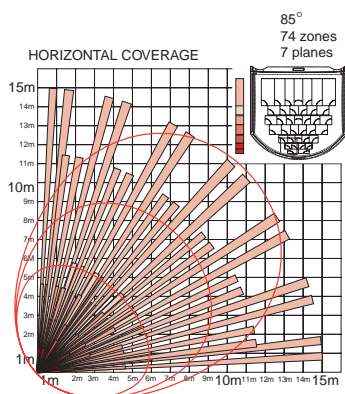
Product Features

Features	Description	Benefits
Independent Mask Relay	In the event of one of the technologies being masked, the Kudos AM will go into a mask fault condition. The mask relay will open. This can be connected to the 24hr zone of a control panel.	Immediate alert in the event of a sabotage attempt
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 AM 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 AM 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	Metallised microwave housing	Eliminates back lobe radiation
ABS Plastics	3mm polished finish, reduces electrostatic interference on the PIR sensor	Easy to clean, retains white finish

Lens Coverage

Supplied

15m Volumetric



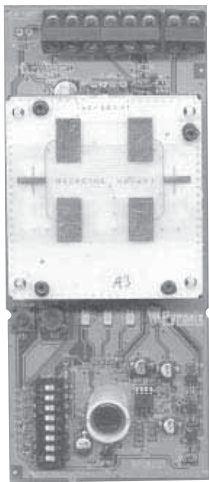
Pyronix Dual Element

The Kudos AM 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.

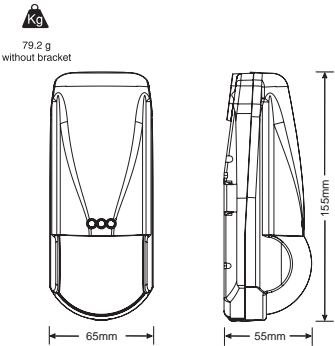


Technical Specifications

ELECTRICAL	
Operating Voltage	9 - 16VDC (12V nominal)
Quiescent Max.Current Consumption	38mA (12V nominal)
Max. Current Consumption on Alarm Activation	45mA (12V nominal)
Relay	Solid State
Relay Output	60VDC, 50mA, Protected
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	20 V/m
RFI Immunity to Pulse Modulation (PM) 10-1000MHz	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 compensated	Fresnel array, 'Grooves in' infrared
Protection	Ultraviolet Light Filter
Tilt Adjustment	0° - 12°
MOUNTING	
Optimum Coverage Height	1.8-2.4m



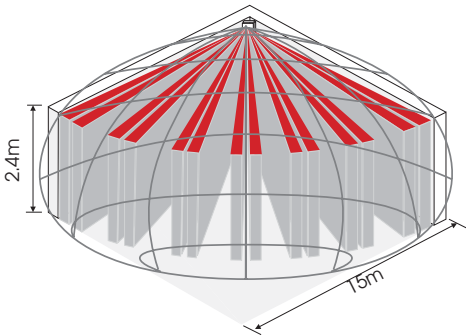
Weights & Dimensions



Applications

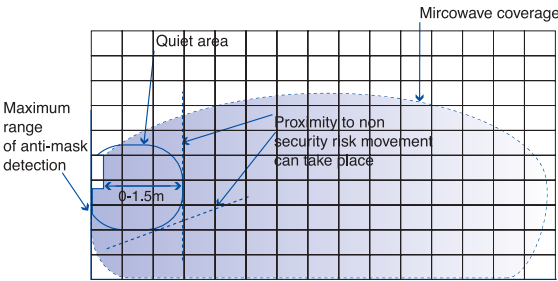
Features	Applications
Anti-Masking Facility	Ideal in high security environments where there may be a significant risk of masking. An area immediately in front of the Kudos AM is monitored continuously and separately from its normal operational mode. Any intrusion into this quiet area activates the anti-masking process.

Volumetric



Anti masking

Side View



COMPLIANCE	PYRONIX PRODUCT CODE
Europe C E	FP166003

PACKING INFORMATION	ACCESSORIES	PYRONIX PRODUCT CODE
Min Pack: 10	K-Tamper	FP16310
Pack Weight: 2.18kg		
Warranty: 2 Years		
Manufactured: UK		

As part of the continued development programme
specifications may change.

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