

Detectors

dual technology detectors



KX15DTAM

INDUSTRIAL / COMMERCIAL

3-in-1 Digital Combined Dual Element PIR and Microwave Blue Wave Technology Detector

Main Features

- Unique patented anti-masking detection
- Dual Element Pyro-Electric Sensor
- Blue Wave Technology
- Selectable EOL (End of Line) Resistors
- Supplied with 3 lenses:
 - 15m Volumetric,
 - 18m Vertical Curtain or 30m Long Range
- 0 - 1m Adjustable Mask Detection
- Active Self Test
- Selectable Mask Security Mode
- Digital Temperature Compensation
- AND / OR Technology
- X-band DRO based Microwave
- Tamper Proof Brackets Included

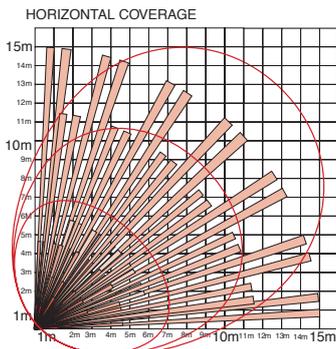
Product Features

Features	Description	Benefits
Independent Mask Relay	In the event of one of the technologies being masked, the KX15DTAM 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
Selectable EOL Resistors	The KX15DTAM incorporates selectable alarm resistor values of 6K8, 5K6, 4K7, 2K2, 1K, tamper values of 5K6, 4K7, 2K2, 1K and mask/fault values of 15K, 12K, 8K2, 6K8, 5K6, 4K7, 2K2 and 1K catering for most control panels on the market.	Completely eliminates the need for separate resistors, therefore reducing installation time
Dual Technology or PIR Mode Blue Wave Technology (BWT)	Option to select between volumetric dual technology, vertical curtain PIR or long range PIR The very latest technological development from Pyronix	3 Products in 1 Further enhances immunity to infrared noise in the environment
Active Self Test	If there is no activation after a 5 hour period the KX15DTAM will actually self test both the PIR and microwave	Unique to Pyronix, this ensures that the detector is always operating effectively
Selectable Mask Security Mode	For high security applications. Provides blocking detection in disarmed mode.	Provides against accidental or deliberate blocking
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 maintain its range even when the background room temperature is almost equal to the external body temperature of 32°C (Internal body Temperature = 37°C)	Guarantees optimum performance at all times
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
Triple LED indication	Microwave - orange, PIR - green, alarm - blue	The technology activated can be easily identified
Frequency options	The KX15DTAM is available in 3 different frequencies	Eliminates the risk of 'cross talk' between detectors located within the same room / environment

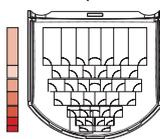
Lens Coverage

Supplied

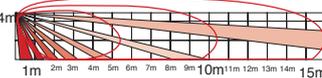
15m Volumetric



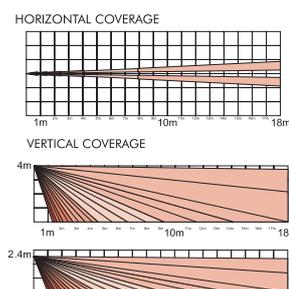
85°
74 zones
7 planes



VERTICAL COVERAGE



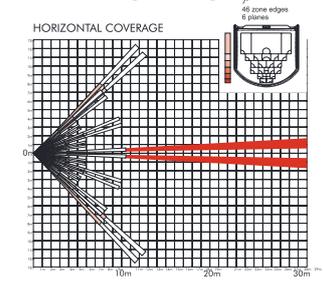
18m Vertical Curtain Lens



20°
24 zone edges
6 planes



30m Long Range Lens



Maximum mounting height for long range lens is 2.4 m



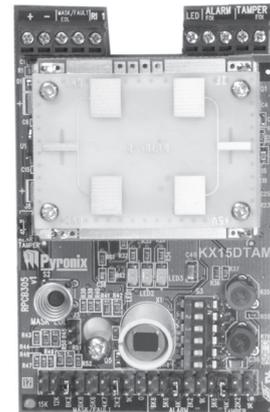
Pyronix Dual Element

The KX15DTAM 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.

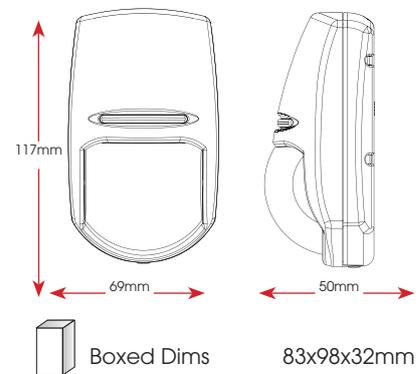


Technical Specifications

ELECTRICAL	
Operating Voltage	9 - 16VDC (12V nominal)
Current Consumption - No Alarm State	23mA
Current Consumption - Alarm State	30mA
Relay	Solid State
Relay Output	60VDC, 50mA, Protected
Tamper Switch	12V max, 50mA max
RFI Immunity to Continuous Wave (CW) 80 - 2000MHz	75V/m
RFI Immunity to Amplitude Modulation (AM) 80 - 2000MHz	25V/m
RFI Immunity to Pulse Modulation (PM) 80 - 2000MHz	25V/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	0.2- 2.5m/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
MOUNTING	
Optimum Coverage Height (Dual Technology)	1.8-2.4m
Optimum Coverage Height (Vertical Curtain)	1.8-4.0m
Optimum Coverage Height (Long Range)	1.8-2.4m



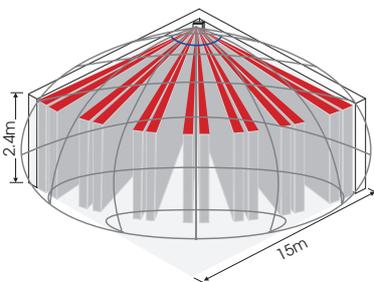
Dimensions



Features	Applications
Anti-Masking Detection	Ideal in high security environments where there may be a significant risk of masking. An area immediately in front of the KX15DTAM is monitored continuously and separately from its normal mode. Any intrusion into this quiet area activates the anti masking process.
3 in 1 Detector	Supplied with 3 lenses, as detailed below, the KX15DTAM is suitable for a range of high security applications.

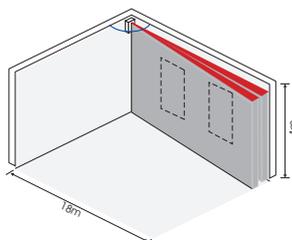
Volumetric

Dual Technology



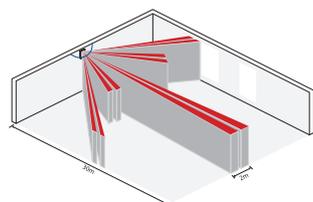
Vertical Curtain

PIR



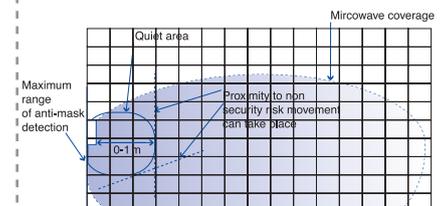
Corridor (Long Range)

PIR



Anti masking

Side View



COMPLIANCE

Europe



PYRONIX PRODUCT CODE

FPKX15DTAM1 (9.90GHz)

FPKX15DTAM2 (10.525GHz)

FPKX15DTAM3 (10.687GHz)

PACKING INFORMATION

Min Pack: 10

Accessories: N/A

Colour: White

Casing: 3mm ABS Electrostatic Shielded

Warranty: 5 Years

Manufactured: UK