

# Detectors

passive infrared receiver



## KX15DQ

only available in the UK

INDUSTRIAL / COMMERCIAL /  
RESIDENTIAL

**Quad Element Blue Wave Technology PIR  
Detector**

### Main Features

- Quad Element Pyro-electric Sensor
- Blue Wave Technology
- Selectable EOL (End Of Line) Resistors
- 15m Volumetric coverage
- Patented Independent Floating Thresholds (IFT)
- Adjustable sensitivity settings
- Digital Temperature Compensation
- Selectable NO or NC Relay
- Multi-Angular LED Indication
- Sealed Optics
- Tamper Proof Brackets Included
- ABS Plastics

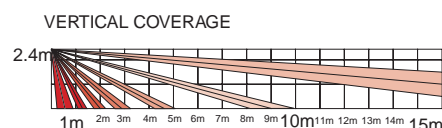
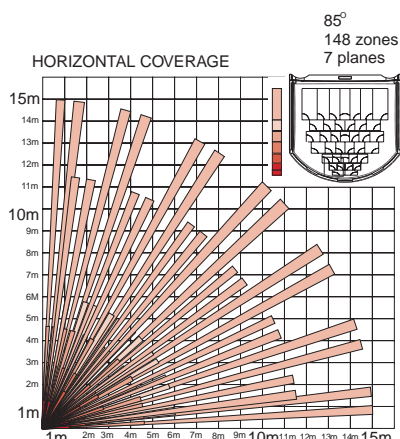
### Product Features

Features	Description	Benefits
Selectable EOL Resistors	The KX15DQ incorporates selectable alarm resistor values of 6K8, 5K6, 4K7 & 1K & tamper values of 5K6, 4K7, 2K2 and 1K catering for most control panels on the market.	Completely eliminates the need for separate resistors, therefore reducing installation time.
Blue Wave Technology (BWT)	The very latest technological development from Pyronix.	See reverse for more detailed information
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	Higher 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 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
Selectable NO or NC Relay	The solid state relay can be selected as Normally Open (NO) or Normally Closed (NC)	Ideal for switching electrical devices
Tamper Proof Brackets	Supplied with both wall & ceiling mount brackets which provides access for up to two 8 core cables (Tamper kit optional)	Allows ease of installation whilst enhancing tamper protection
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 ensuring the detector covers the desired area.
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
ABS Plastics	3mm polished finish, reduces electrostatic interference on the PIR sensor.	Easy to clean, retains white finish.

### Lens Coverage

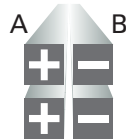
### Supplied

15m Volumetric



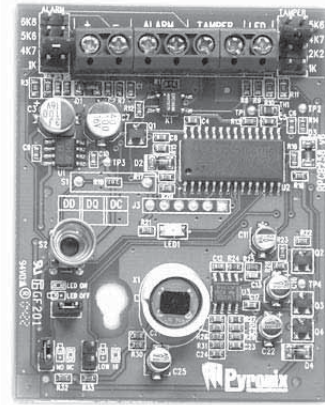
## Pyronix Quad Element

The KX 15DQ has two pyro-electric sensors each containing two sensing elements and when these are projected through a lens they form zones as illustrated to the right. Quad detectors offer a greater level of immunity than a standard dual element to cope with more hostile environments. They can ignore small sources of infrared energy, e.g from small rodents or sunlight heating windows.

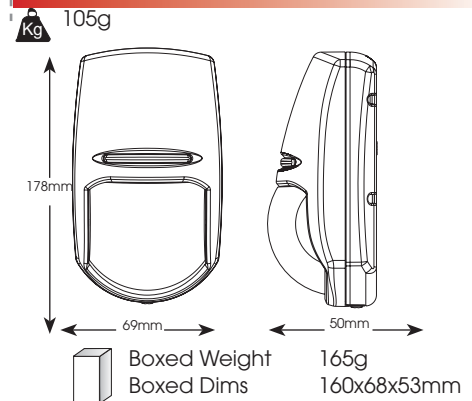


## Technical Specification

ELECTRICAL	
Operating Voltage	9 - 16VDC (12V nominal)
Current Consumption - No Alarm State	12mA (12V nominal)
Current Consumption - Alarm State	11mA (12V nominal)
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	25 V/m
RFI Immunity to Pulse Modulation (PM) 80-2000MHz	25 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	3 Dimensional
Protection	Ultraviolet Light Filter
MOUNTING	
Optimum Coverage Height	1.8-2.4m



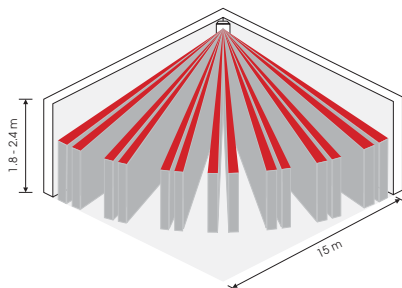
## Weights & Dimensions



## Applications

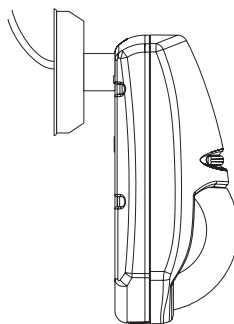
Features	Applications
Selectable NO or NC Relay	The solid state relay can be selected as normally open (NO) or normally closed (NC), the KX15DQ is the ideal choice for applications such as switching CCTV cameras.
Blue Wave Technology (BWT)	This further enhances the detector's immunity to infra-red noise in the environment. BWT comprises of 2 key components: 1. The new 3D optics system enables perfect focusing of the infra-red signal onto the pyro-electric sensor. This allows BWT to clearly identify the positive and negative signal edges. 2. Powerful software embedded into a microprocessor is used to process the received information from the pyro-electric sensor. The result of this combination is lower infra-red signal noise amplification and therefore better immunity. 3. A blue LED on the KX digital detectors signifies Blue Wave Technology.

### Volumetric

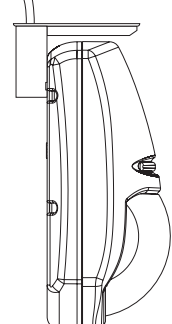


### Brackets

#### Wall Bracket



#### Ceiling Bracket



COMPLIANCE		PYRONIX PRODUCT CODE			PACKING INFORMATION		ACCESSORIES		PYRONIX PRODUCT CODE	
Europe	CE	FPKX15DQ			Min Pack:	10	K-TAMPER		FP16310	
					Pack Weight:	1.74kg				
					Warranty:	5 Years				
					Manufactured:	UK				

As part of the continued development programme  
specifications may change.

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