

**KX15DD**  
Digital Dual PIR Detector

**KX15DQ**  
Digital PIR Detector

**KX18DC**  
Digital Dual Curtain PIR Detector

**KX10DP**  
Digital Dual Pet Immune PIR Detector

# Detectors

## KX Digital Range

- Dual element pyro-electric sensor
- 15m Volumetric detection coverage (KX15DD, KX15DQ)
- 18m Vertical curtain detection coverage (KX18DC)
- 30m Long range detection coverage (KX18DC)
- 10m Pet immune detection up to 24kg animal (KX10DP)
- Selectable EOL (End Of Line) resistors
- Blue wave technology
- Auto sensitivity feature
- Digital temperature compensation
- Tamper proof brackets included
- Sealed optics
- ABS plastics



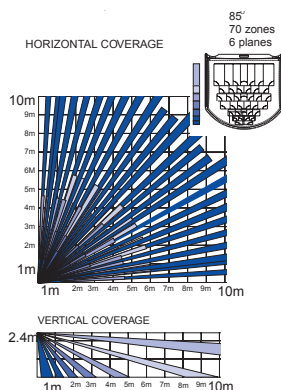
INDUSTRIAL / COMMERCIAL /  
RESIDENTIAL

### Product Features

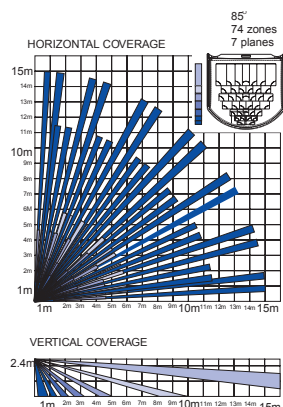
Features	Description	KX15DD	KX15DQ	KX18DC	KX10DP
15m Volumetric detector	15m Volumetric detection coverage, Ideal for protection of rooms, offices etc.	✓	✓	✗	✗
18m Vertical curtain detector	18m Vertical curtain detection coverage, Ideal for protection of large windows areas	✗	✗	✓	✗
30m Long range detector	30m long range detection coverage, Ideal for long narrow areas or corridors	✗	✗	✓	✗
Pet Immune / 10m volumetric detector	The detectors intelligent PI (Pet Immune) technology analyses the difference between an intruder and a pet signal, with immunity up to 24kg and 10m coverage range.	✗	✗	✗	✓
Selectable EOL resistors	The detectors 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.	✓	✓	✓	✓
Blue wave technology	This technology 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.	✓	✓	✓	✓
Auto sensitivity feature	Depending on the environment condition, the detector will automatically adjust the sensitivity	✓	✓	✓	✓
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)	✓	✓	✓	✓
Tamper proof brackets	Supplied with both wall & ceiling mount brackets which provides access for up to two 8 core cables (Tamper kit optional)	✓	✓	✓	✓
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.	✓	✓	✓	✓
ABS plastics	3mm polished finish, reduces electrostatic interference on the PIR sensor.	✓	✓	✓	✓

### Lens Coverage

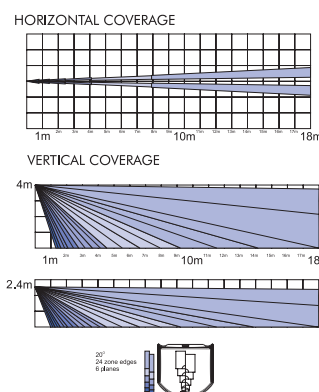
**10m Pet Immune Lens**  
(KX10DP)



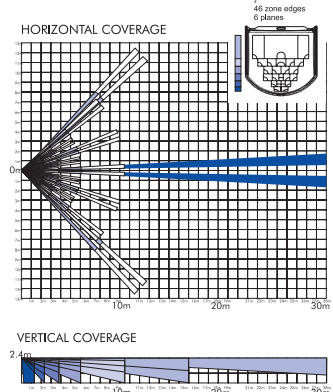
**15m Volumetric Lens**  
(KX15DD/KX15DQ)



**18m Vertical Curtain Lens**  
(KX18DC)



**30m Long Range Lens**  
(KX18DC)



## Technical Specification

ELECTRICAL	
Operating voltage	9-16VDC (12V nominal)
Current consumption - no alarm	12mA (12V nominal)
Current consumption - alarm	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	75 V/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

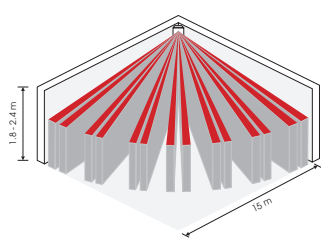
MOUNTING	
Optimum coverage height	1.8-2.4m



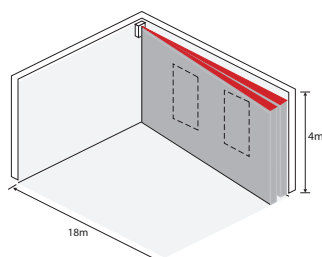
**KX15DD, KX15DQ, KX18DC, KX10DP**  
 For use in EN50131-1 Systems  
 Security Grade 2  
 Environmental Class 2

## Lens Coverage and Printed Circuit Board

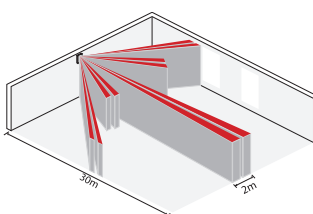
**Volumetric Lens**



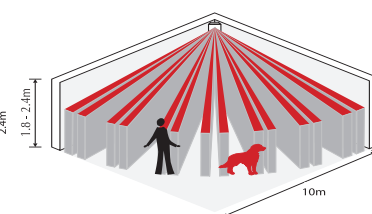
**Vertical Curtain Lens**



**Corridor (Long Range) Lens**



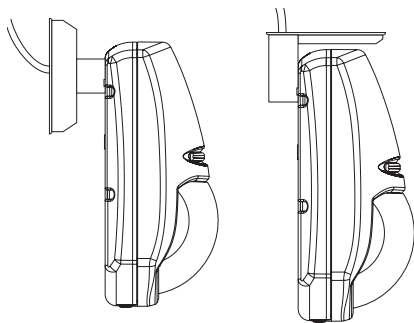
**Volumetric Pet Lens**



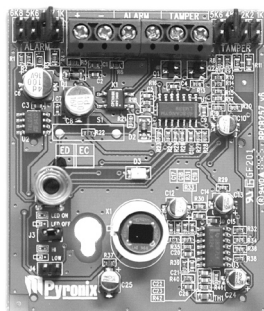
**Vertical curtain lens**

This detector can be mounted to provide vertical curtain coverage to protect doors or windows and offers excellent perimeter protection. It is ideal for use in environments where a window needs to be protected, but the remainder of the room may be in use.

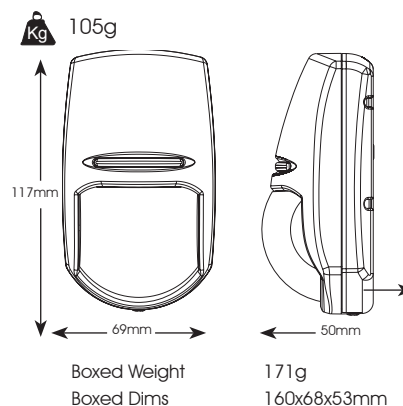
**Brackets (Wall and Ceiling)**



**Printed Circuit Board**



**Weights and Dimensions**



All the KX detectors have a pyro-electric sensor containing two sensing elements and when projected through a lens, form zones as illustrated to the left. In order for an alarm to be triggered one of more of these zones would need to be crossed.

## Information

Compliance	Europe	CE
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Min Pack:	10
Weight:	1.71kg
Warranty:	5 years
Designed	UK