

# KX10DP®

**10m Digital Pet PIR Detector**



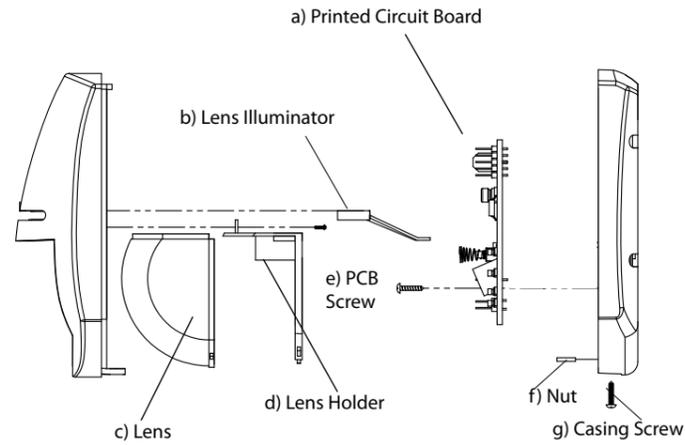
EN50131-2-2:2008  
EN50131-1  
PD6662:2010  
Security Grade 2  
Environmental Class II



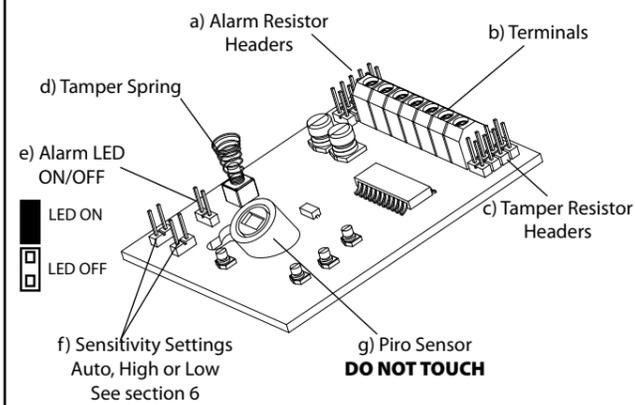
RINS1041-7



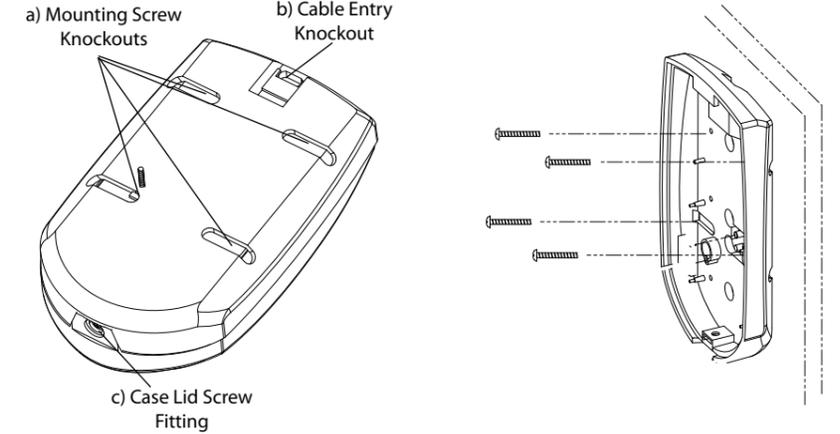
## 1: Disassembling the KX



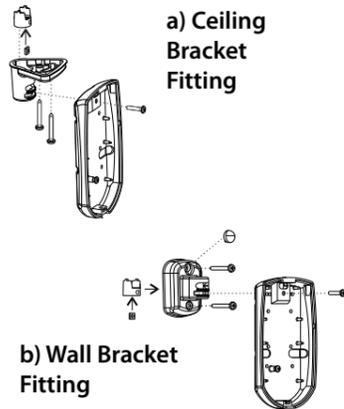
## 2: The Printed Circuit Board



## 3: Cable Entry + Mounting



## 4: Bracket Connections



## 5: Installation Hints

Do not partially or completely obscure the detector's field of view with large objects such as furniture.

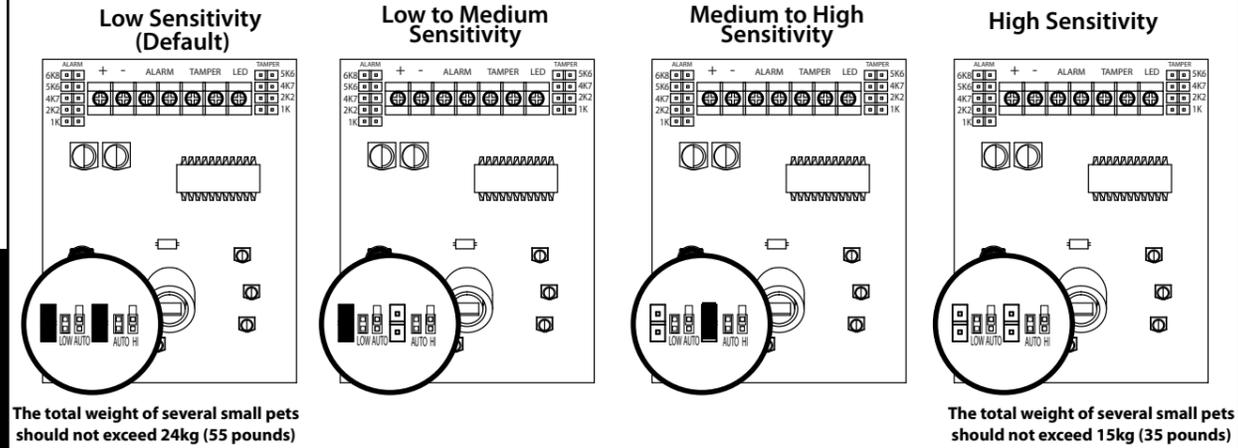
### Avoiding False Alarms

1. Avoid placing the detector in direct sunlight.
2. Do not mount the detector near heaters or radiators.
3. Do not mount the detector near open windows or air vents as draughts may cause false alarms
4. Mount the detector on a stable surface.
5. Do not run cable parallel to mains wiring.

### IMPORTANT NOTE:

1. Before arming the alarm, all humans must move out of the KX10DP detectors field of view.
2. Before arming the control panel, the KX10DP must be left to settle for 20 seconds.
3. After 20 seconds the control panel can be armed.

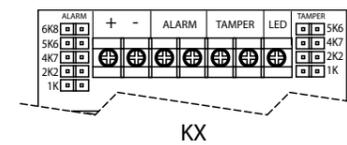
## 6: Sensitivity Settings



## 7: EOL Resistor Headers

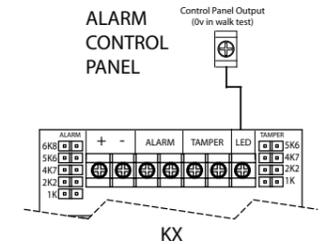
The KX10DP has 2 set of header pins at the top of the printed circuit board. These headers are used to select the End of Line resistance for EOL wiring applications.

If EOL wiring is not used, leave the headers OFF.



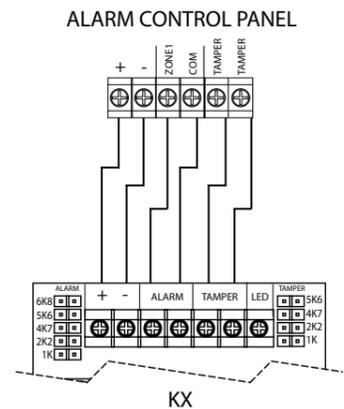
## 8: Remote LED Enable

The KX10DP has a terminal marked 'LED' which can be used to enable the LED in walk test only on an alarm control panel. This is used when the LED is disabled via the LED ON/OFF link. The enable this feature, the LED terminal needs to be connected to an output on the control panel. When the system is in walk test mode the output should be at 0v. The output would be usually programmed as 'Remote LED enable'

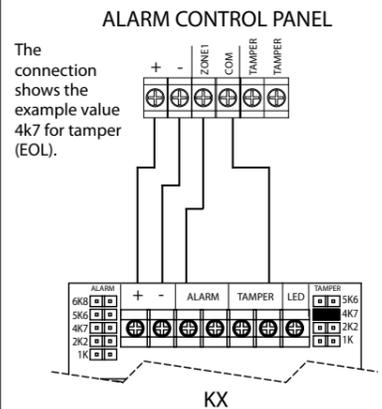


## 9: Choose the Connection Type:

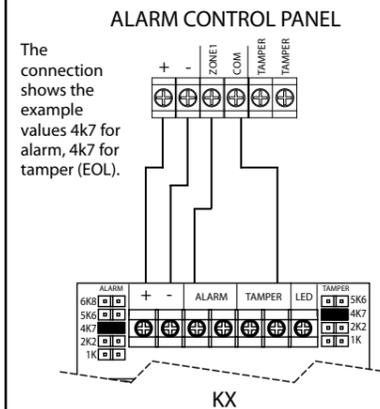
### a) Normally Closed



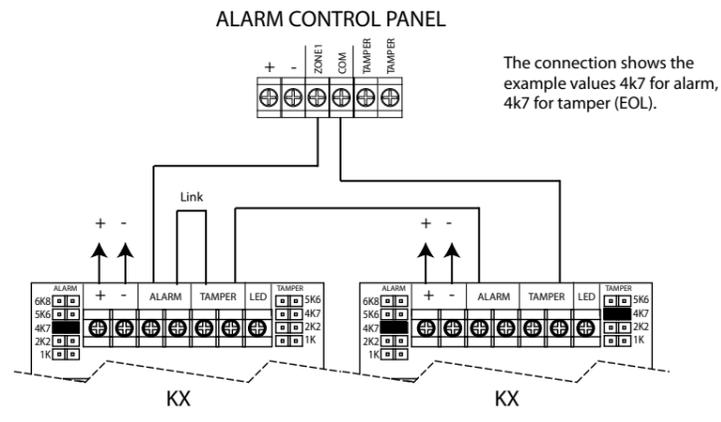
### b) Single End of Line Wiring



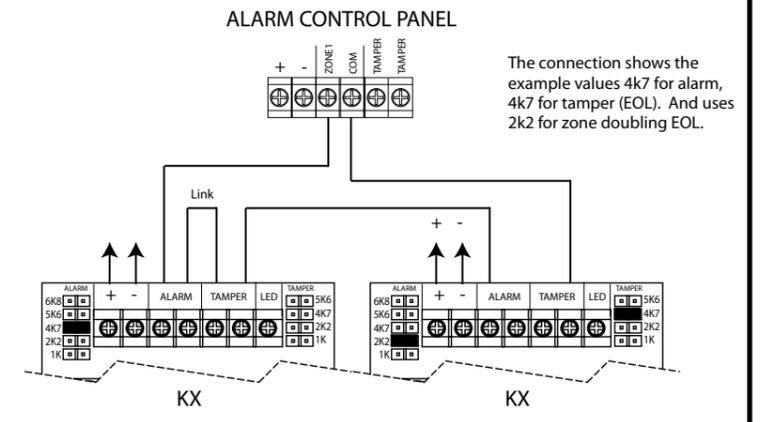
### c) Double End of Line Wiring



### d) Two Double End of Line Detectors to One Input



### e) Zone Doubling Example (For Matrix 424, 832, 832+)



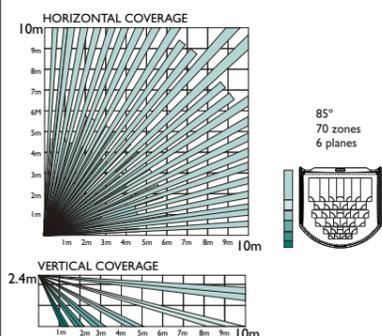
## 10: Powering Up and Operation

When the detector is first powered up, it will run through a self-test routine, indicated by the flashing BLUE LED. Once this has distinguished the detector is ready to use.

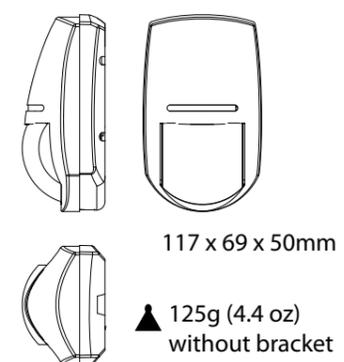
When the KX10DP first detects a moving target (pet/human) the BLUE LED will pulse for a couple of seconds while monitoring the amount of emitted heat from the moving target.

If the detector determines that the moving target is more than 15kg or 24kg (depending on the sensitivity setting) the alarm relay will open. If the moving target (pet) is below 15kg or 24kg then the alarm relays will remain closed.

## 11: The 10m Lens



## 12: Dimensions and Weight



## 13: Technical Specification

**Model:** KX10DP  
**Colour:** White  
**LED Colour:** Blue (PIR)  
**Casing:** 3mm ABS, 0.4mm HDPE in Lens Area  
**Detection Method:** Digital Quad Signal Processing  
**PIR Sensitivity:** High or Low  
**Temperature Comp:** Digital  
**Detection Range:** 10m  
**Detection Speed:** 0.3 - 3.0m/s  
**Operating Voltage:** 9-16V DC 13.8V DC typical  
**Current Consumption:** 13mA @ 12V (Min), 16mA @ 12V (Max)  
**Relay Output:** 50mA 60 VDC, 42 VAC (RMS)  
**Contact Resistance:** <10 ohms  
**Mounting Height:** 1.8m - 2.4m  
**Tamper Switch:** 12V 50mA  
**Storage Temp:** -40°C to 80°C  
**Certified operating temperature:** -10°C to 40°C  
**Nominal working temperature:** -30°C to 70°C  
**Accessories:** Wall and Ceiling brackets  
**Emissions:** EN55022 Class B  
**Immunity:** EN50130-4

## 14: Compliance and Warranty



This product is approved for use in the Residential, Commercial and Light Industrial Environment. It complies with EN50131-2-2:2008 at security grade 2, environmental class 2. UK = Suitable for use with systems installed to PD6662:2010. EXPORT = Suitable for use with systems installed to EN50131-1:2006+A1:2009

**WARRANTY:** This product is sold subject to our standard warranty conditions and is warranted against defects in workmanship for a period of five years. In the interest of continuing improvements of quality, customer care and design, Pyronix Ltd reserves the right to amend specifications without giving prior notice.

## 15: Contact Information



**Customer Support:**  
+44(0)845 6434 999 (local rate)  
or +44(0)1709 535225  
**Hours:** Mon to Fri, 8:00am till 6:30pm  
**Email:** customer.support@pyronix.com  
**Website:** www.pyronix.com

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