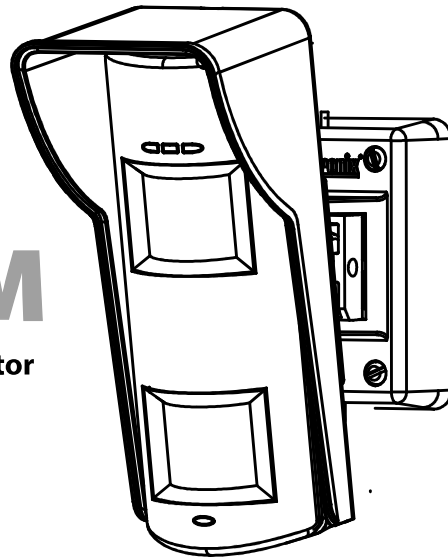


XD10TTAM

10m Pet Immune External Detector



ENGLISH

GREEK

ITALIAN

POLISH

RUSSIAN

SPANISH

CE

RINS1398-4

1. Contents Page

ENGLISH

1. Contents Page	2
2. Assembling the Casing	3
3. Printed Circuit Board	4
4. Anti-Masking and Anti-Blocking Functionality	5
5. Dip Switch Programming	6
6. Connections	7
7. Lens 5 (Fitted) and Lens 3 (Supplied)	8
8. Changing the Lens	9
9. Golden Rules When Using Lens 3	10
10. Potential Tri-detection Hazards	11
11. Initial Power Up	11
12. LED Indications	12
13. Technical Specification	12
14. Warranty	12

GREEK

1. Πλακέτα	13
2. Anti-Masking and Anti-Blocking Functionality	14
3. Προγραμματισμός Dip Switch	15
4. Συνδέσεις	15
5. Φακός Νο 5 (εγκατεστημένος) και φακός Νο 3 (παρέχεται)	15
6. Αλλαγή φακών	17
7. Golden Rules When Using Lens 3	18
8. Πιθανά σφάλματα ψευδών συναγερωμών	19
9. Πρώτη τροφοδοσία	20
10. Ενδείξεις LED	20
11. Τεχνικές προδιαγραφές	21
12. Εγγύηση	21

ITALIAN

1. Composizione Del Circuito Stampato	22
2. Funzionamento Anti-mascheramento / Blocking	23
3. Programmazione dei DIP switch	24
4. Connessioni	25
5. Copertura Lente 5 (montata) e lente 3 (in dotazione)	26
6. Cambiare le lense	26
7. Consigli di utilizzo per la lente 3	27
8. Potenziali rischi nel rilevamento	28
9. Accensione iniziale	29
10. Indicazioni dei LED	29
11. Specifiche tecniche	30
12. Garanzia	30

POLISH

1. Płytki elektronicznej PCB	31
2. Anti-Masking and Anti-Blocking Functionality	32
3. Programowanie DIP-Switchy	33
4. Podłączenia	34
5. Soczka 5 (zamocowana) i soczewka 3 (dostarczona)	35
6. Zmiana soczewek	35
7. Golden Rules When Using Lens 3	36
8. Potencjalne zakłócenia detekcji potrójnej technologii	37
9. Pierwsze podłączenie	38
10. Wskazania LED	38
11. Specyfikacja techniczna	39
12. Gwarancja	39

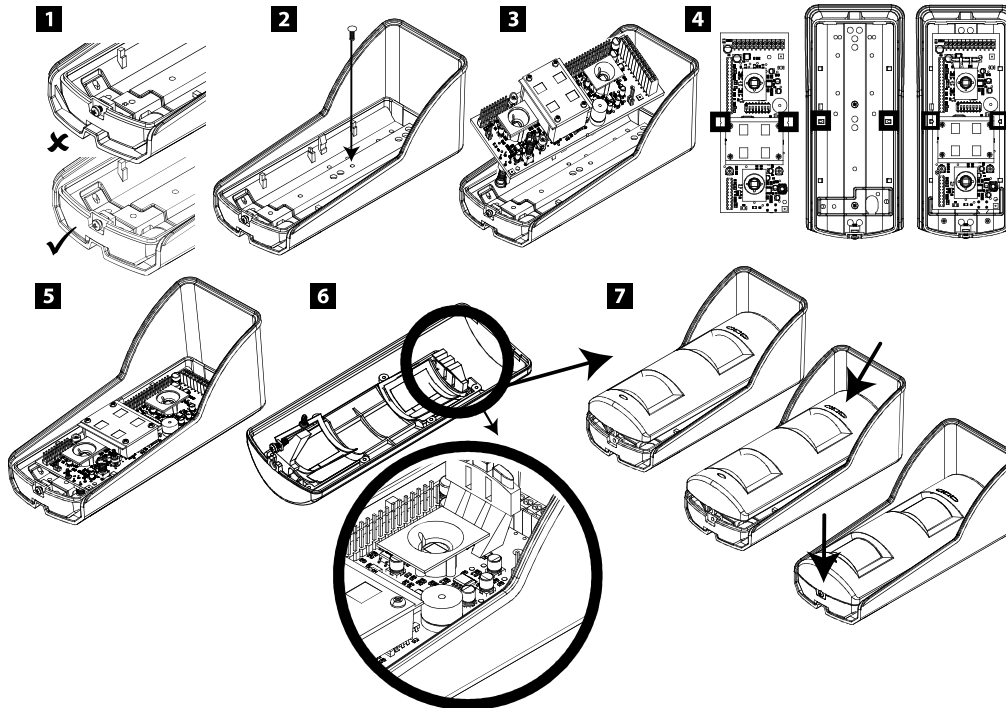
RUSSIAN

1. Элементы на печатной плате	40
2. Anti-Masking and Anti-Blocking Functionality	41
3. Программирующий Переключатель	42
4. Подключение	43
5. Линза 5 (установлена) и линза 3 (в комплекте)	44
6. Смена линз	44
7. Golden Rules When Using Lens 3	45
8. Потенциальные опасности применения тройного детектора	46
9. Включение	47
10. Индикация	48
11. Техническая информация	48
12. Гарантия	48

SPANISH

1. Placa de circuito impreso	49
2. Anti-Masking and Anti-Blocking Functionality	50
3. Programación de Dip Switch	51
4. Conexiones	52
5. Lente 5 (instalado) y lente 3 (provisto)	53
6. Cambio de lentes	53
7. Golden Rules When Using Lens 3	54
8. Riesgos potenciales de Tri-detección	55
9. Alimentación inicial	56
10. Indicaciones de los LED	56
11. Especificación técnica	57
12. Garantía	57

2. Assembling the Casing



ENGLISH

Included in this detector:
 1 x XD10TTAM
 1 x Weather proof hood
 2 x Volumetric lenses (factory fitted)
 2 x Horizontal curtain lenses
 2 x Adjustable masking grids
 2 x Fixed masking grids
 *Bracket is not supplied

GREEK

Συμπεριλαμβάνονται στην συσκευασία:
 1 x XD10TTAM
 1 x Αδιάβροχο κάλυμμα
 2 x Φακοί ογκομετρικοί (εγκατεστημένοι)
 2 x Φακοί οριζόντιας κουρτίνας
 2 x Ρυθμιζόμενες μάσκες GRID
 2 x Σταθερές μάσκες GRID
 *Η βάση δεν περιλαμβάνεται στην συσκευασία

ITALIAN

In questo rivelatore sono inclusi:
 1 x XD10TTAM
 1 x tettuccio a prova d'acqua
 2 x lenti volumetriche (montate di fabbrica)
 2 x lenti volumetriche ad 1,5m di altezza
 2 x lenti regolabili di mascheramento infrarosso
 2 x lenti fisse di mascheramento infrarosso a fascio alternato
 *la staffa è opzionale e non fornita con il rivelatore

POLISH

Wyposażenie czujki:
 1 x XD10TTAM
 1 x daszek ochronny
 2 x soczewki wolumetryczne (ustawione fabrycznie)
 2 x horyzontalne soczewki kurtynowe
 2 x ustawialne zaślepki maskujące
 2 x ustawione fabrycznie zaślepki maskujące
 * Uchwyt nie jest wyposażeniu

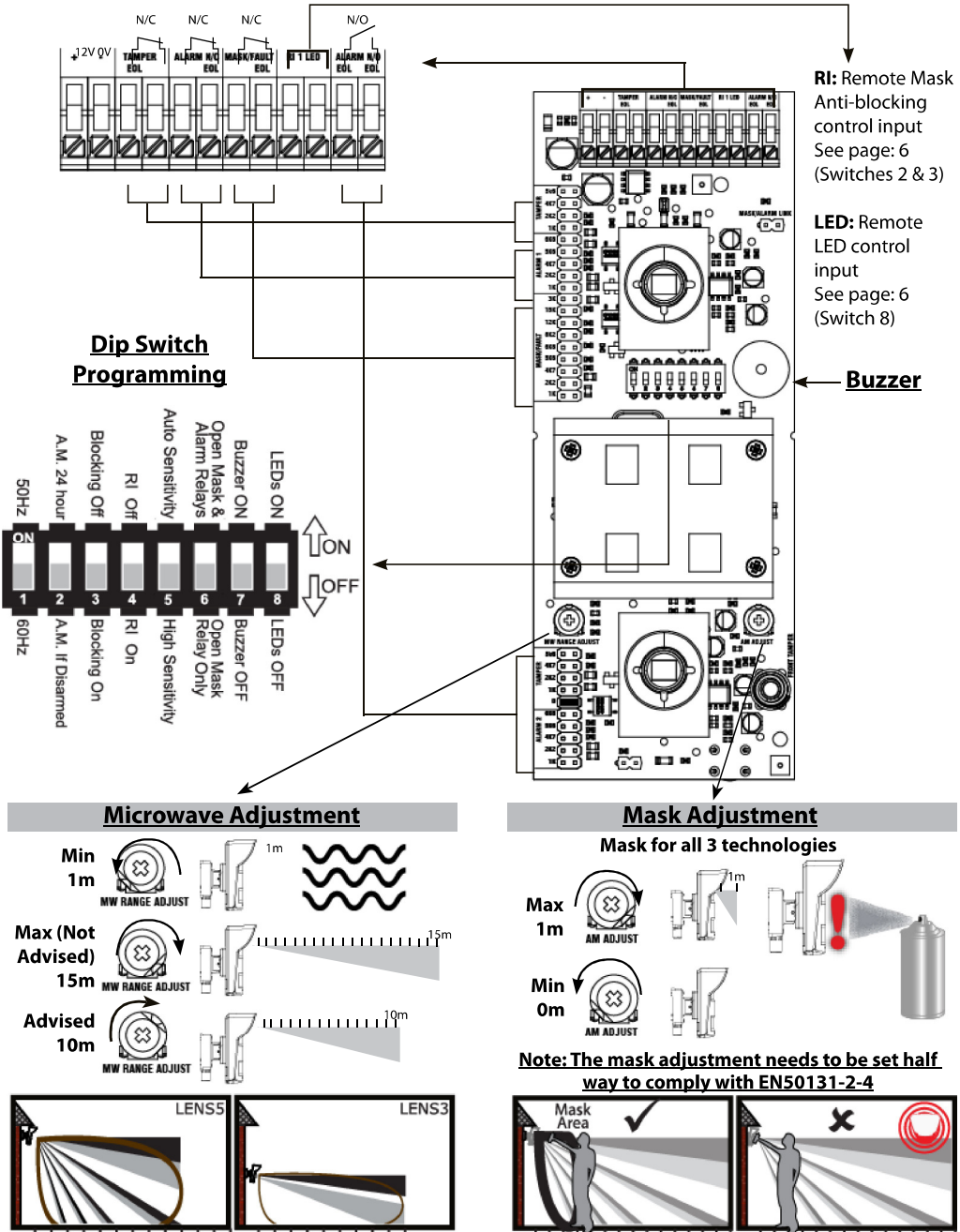
RUSSIAN

Комплект поставки детектора:
 - XD10TTAM 1 шт
 - Защитный козырек 1 шт
 - Объемные линзы (установлены на заводе) 2 шт
 - Горизонтальные линзы шторы 2 шт
 - Маскирующие сетки обрезные 2 шт
 - Маскирующие сетки не обрезные 2 шт
 - *Кронштейн в комплект не входит

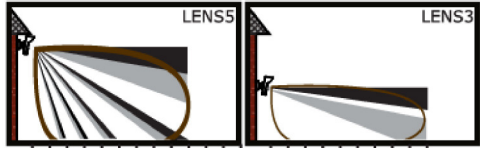
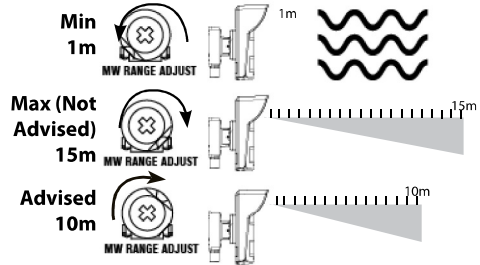
SPANISH

Incluido en este detector:
 1 x XD10TTAM
 1 x Cobertor a prueba de agua
 2 x lentes volumétricos (instalados de fábrica)
 2 x lentes de cortina horizontal
 2 x grillas ajustables de enmascaramiento
 2 x grillas de enmascaramiento fijas
 *Soporte no incluido

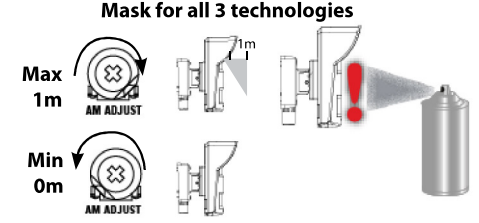
3. Printed Circuit Board



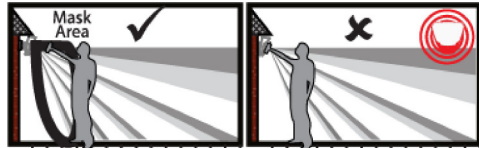
Microwave Adjustment



Mask Adjustment



Note: The mask adjustment needs to be set half way to comply with EN50131-2-4



4. Anti-Masking and Anti-Blocking Functionality

Anitmasking

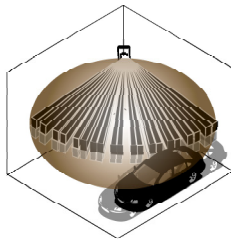
The XD10TTAM is able to detect when one or both PIR detectors as well as the Microwave module are masked. For this purpose it uses the patented anti-masking technology where the anti-masking detection is done via the MW technology. The AM technology is able to detect masking of the detector with aluminium foil, spray and any object position on or in front of the detector with the purpose of obstructing the field of view of the PIR or MW sensors.

As soon as an object enters the masking area of protection (this is adjustable between 0 to 1m) the detector initialises the mask processor. The Blue LED starts flashing to show this process has been initiated. The mask processing continues for total of 1 minute and is divided into 2 groups of 30 sec intervals. If during the second 30 sec interval the obstruction is removed and all 3 technologies are activated the detector will be reset to normal working condition and the masking processing will be stopped. If the obstruction is not removed then at the end of the 1 minute timer the MASK and ALARM relay will open and the Green and Orange LEDs will be permanently activated.

The anti-masking feature is very effective to identify any obstruction of the PIR or MW sensors by any object as well as detecting masking the PIR detectors by spray.

Blocking

The blocking feature allows the detection of obstruction of the XD located further than the max of 1m the AM feature can detect. The blocking feature is very useful when there is the risk for an intruder to access the perimeter behind obstructions such as parked cars, pallets or any other tall enough object located within the filed of view of the detector. When the blocking feature is active the Alarm relay will open and the Green and Orange LEDs will be activated.



For example, if a car is parked in front of the XD and therefore obstructing the field of view of the PIR sensors and if some one is moving behind the car the MW sensor will be activated but the PIR sensors will not be activated. This will activate the Blocking feature of XD. To reset the blocking XD should be walk tested so that both PIRs and MW sensors are activated.

5. Dip Switch Programming

1. 50/60Hz AC Filter

ON = 50Hz. **OFF** = 60Hz (For use with AC supplies at 60Hz)

2. Anti-Mask Operation

ON = Anti-mask enabled
OFF = Anti-mask enabled only system disarmed (see DIP4)

3. Blocking (via MW)

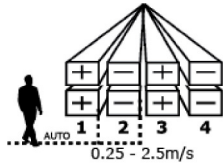
ON = Blocking disabled
OFF = Blocking enabled when system disarmed (see DIP4 / DIP6 has to be ON)

4. RI 1 mode

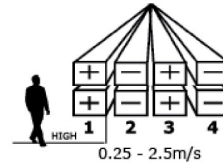
ON = RI disabled
OFF = RI enabled
 RI is used to enable the Anti-masking and Blocking feature when DIP2 and DIP3 are programmed to **OFF**. It is required to connect the RI input to an output that follows the Arm/Disarm status of the panel and gives Negative (0v/-/GND) when disarmed and Positive (COM/+12v) when armed.

5. Sensitivity

ON = Auto Sensitivity

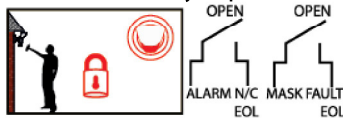


OFF = High Sensitivity



6. Open Mask and Alarm Relays

ON = Mask & alarm relays open



OFF = Mask relay open



7. Buzzer Alarm

ON = Buzzer Enabled



OFF = Buzzer Disabled



8. LED Enable/Disable

ON = LED Enabled (Remote LED disabled)



OFF = LED Disabled (Remote LED enabled)

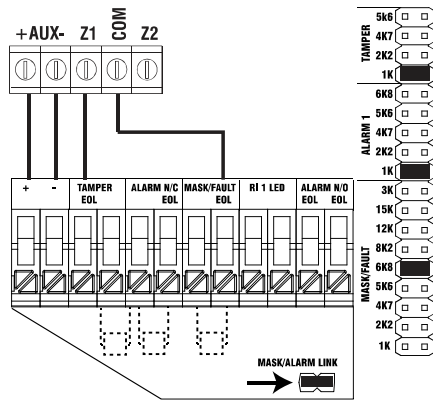


To remotely enable the LEDs:

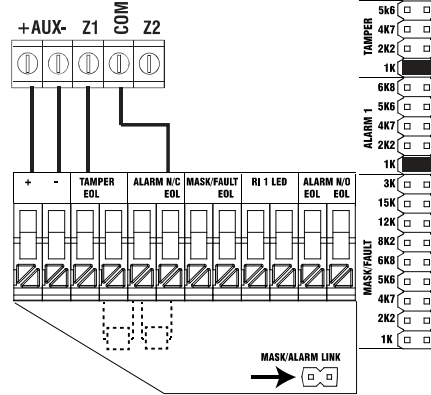
Connect LED to walk test PGM: 0V = Walk Test On. **12V** = Walk Test Off

6. Connections

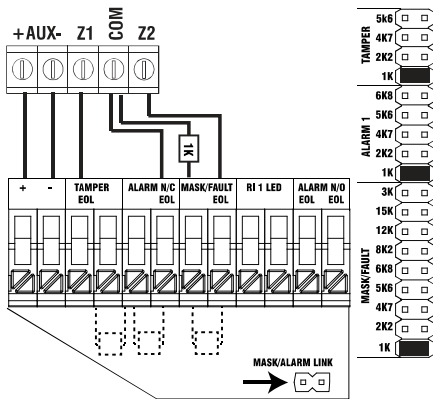
(i) GRADE 3 CONFIGURATION
Mask, Fault, Alarm and
Tamper on the same zone



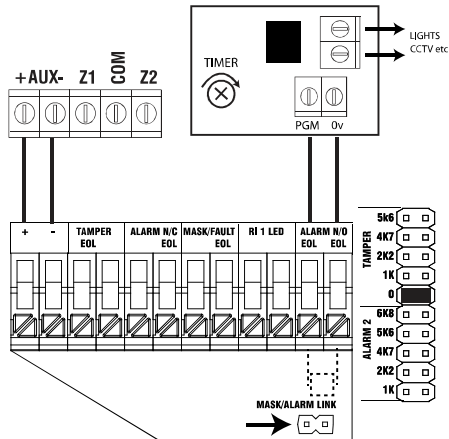
(ii) GRADE 2 CONFIGURATION
No mask



(iii) GRADE 2 or 3 CONFIGURATION
Using 2 zones for alarm and mask

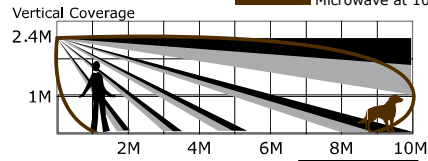
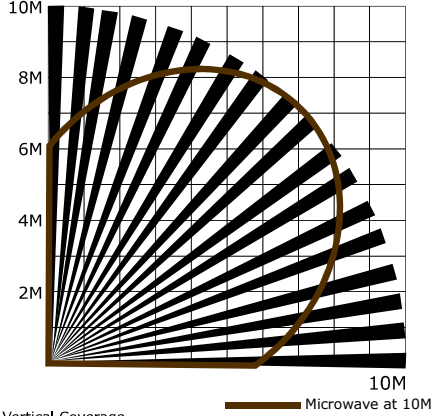


(iv) Connections to Alarm N/O



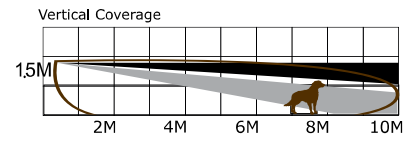
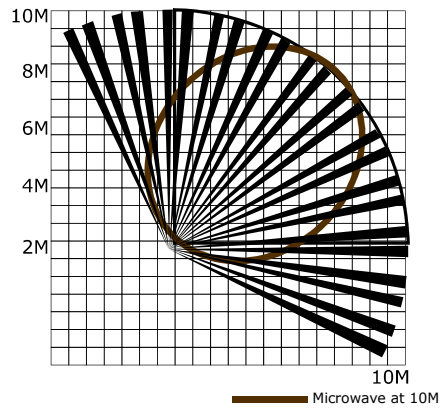
7. Lens 5 (Fitted) and Lens 3 (Supplied)

LENS 5 (Volumetric)
Horizontal Coverage



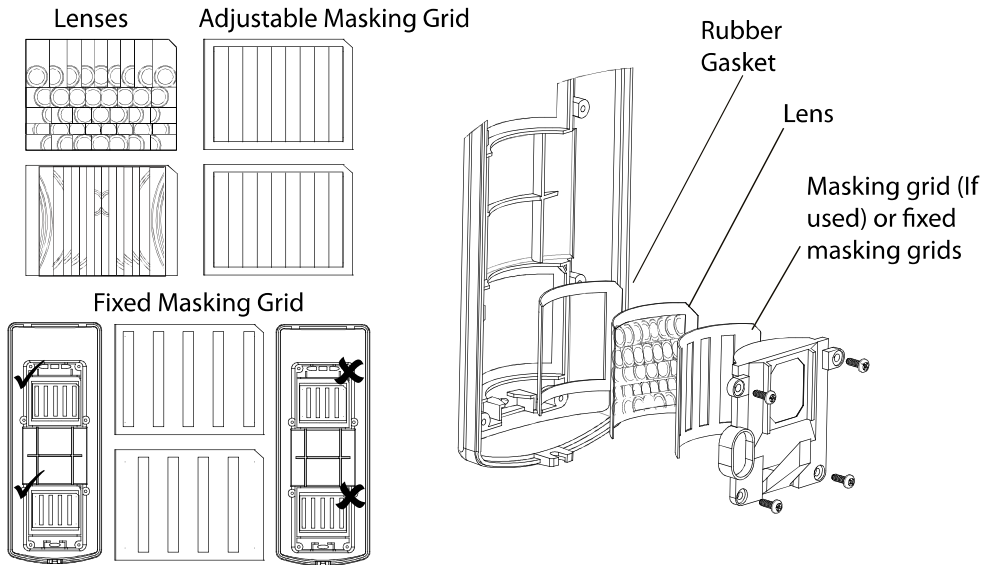
- Top Lens 90° 78 Zone Edges
 - Bottom Lens 5 Planes
-

LENS 3
Horizontal Coverage



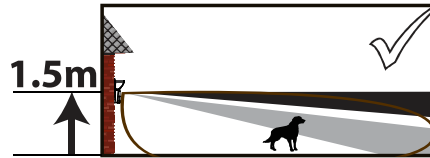
- Top Lens 142° 24 Zone Edges
 - Bottom Lens Single Plane
-

8. Changing the Lens

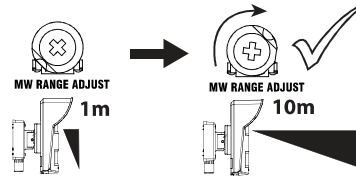


9. Golden Rules When Using Lens 3

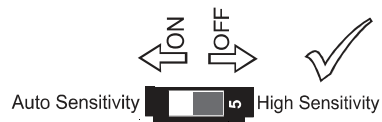
1) Installation height must not be less than 1.5m.



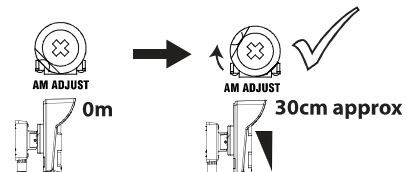
2) Set the Microwave to the shown position.



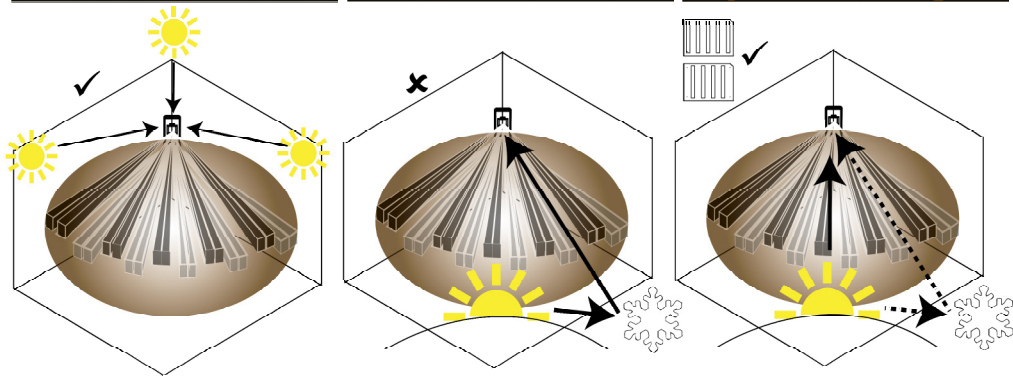
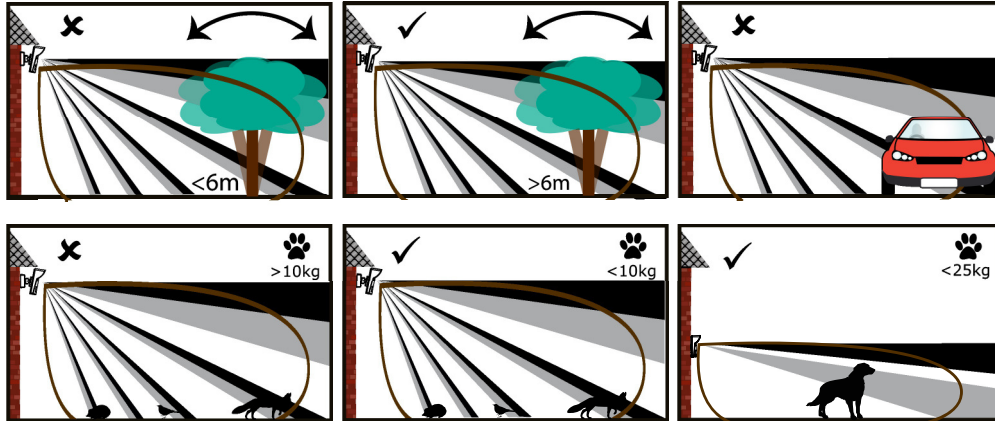
3) Set Dip switch 5 to 'High Sensitivity'.



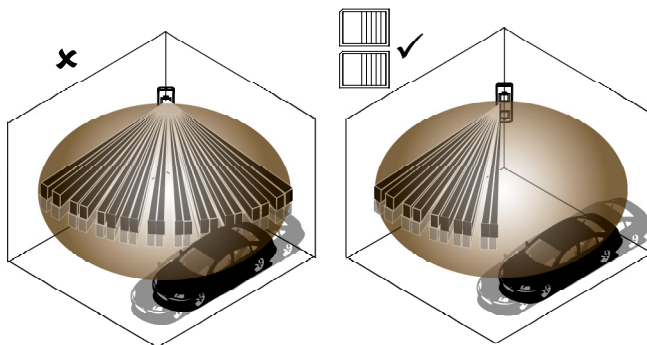
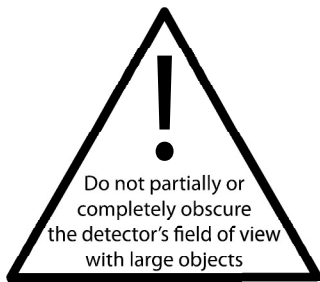
4) If used, set the Anti-Mask range no more than approximately 30cm.



10. Potential Tri-detection Hazards

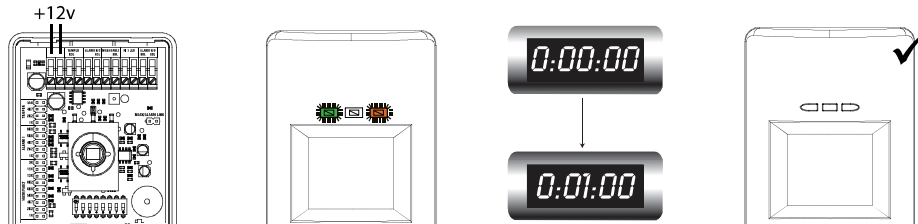


Using Fixed Masking Grid



Using Adjustable Masking Grid

11. Initial Power Up



12. LED Indications

Action	Bottom LEDs	Top LEDs
LED Colours:	RED	GREEN BLUE ORANGE
Powering Up		
Top PIR Triggered		
Microwave Triggered		
Top PIR Failed Self Test		
Microwave Failed Self Test		
Tri Cover Alarm		
Bottom PIR Triggered		
Bottom PIR Failed Self Test		
Mask Processing		
Latched Mask/Blocking		
Low Voltage		

13. Technical Specification

Casing	3mm polycarbonate, 0.4mm HDPE in Lens Area
Lenses	2 x Lens 5 (UV Compensated) 2 x Lens 3 Optional (UV Compensated)
Tri-Detection Method	2 low noise dual element passive infrared sensors and a microwave doppler unit
Tri-Masking	Adjustable from 0M to 1M. Covers all 3 technologies.
Sensitivity	Selectable AUTO or HIGH
Temperature Compensation	Digital
Detection Speed	0.25 - 2.5m/s
Operating Voltage	9-16VDC, 13.8VDC typically
Current Consumption	24mA @ 13.8VDC quiescent
Relay Output	3 x SELV limits, 60VDC 50mA (42.4VAC peak)
Mounting Height & Range	1.8m - 2.4m = 10m (Lens 5) 1.5m = 10m (Lens 3)
Pet Immunity	Lens 5 = 10kg (2 x Volumetric) Lens 3 = 25kg (2 x Horizontal Curtain)
Tamper Switch	12VDC 50mA both front and rear
Storage Temperature	-40°C to +80°C (+40°F to 176°F)
Operating Temperature	-30°C to +70°C (+22°F to 158°F)
Emissions	EN55022 Class 2
Immunity	EN50130-4

14. Warranty

This product is sold subject to our standard warranty conditions and is warranted against defects in workmanship for a period of two years.

In the interest of continuing improvement of quality, customer care and design, Pyronix Ltd reserves the right to amend specifications, without prior notice.