

# 4191-GB

## 12m HORIZONTAL CURTAIN PIR

The 4191-GB is a wireless PIR, for operation with the 4000 series of wireless control panels or receivers. This unit employs the FM horizontal curtain lens.

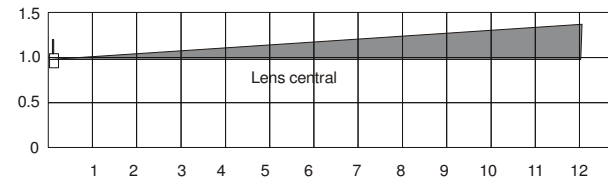
**INHIBIT** To prevent repeated transmissions and resultant battery drain, the PIR incorporates a 2 minute inhibit timer. When movement is detected the alarm is transmitted and then further transmissions are inhibited for 2 minutes or until the PIR has seen no movement for two minutes.

**PULSE COUNT** The recommended setting is pulse count 2. For maximum detection sensitivity, if required, no pulse count can be used.

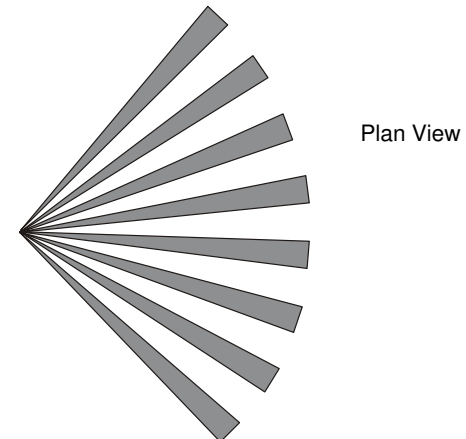
**RECOMMENDED BATTERIES** Two AA size Alkaline batteries are required, Eveready or Duracell are recommended. (Available from FM Electronics)

**MOUNTING** Always mount the detector at a height of 1.0 to 1.5 meters so that anyone entering the area passes across the detection beams.

**TILT ADJUSTMENT** The Lens must be set precisely central, to prevent the main beams from looking down. If the ground is sloping the detector should be set to the same slope angle. This can be accomplished by loosening the two lens fixing screws and sliding the lens fully up to tilt upwards 4 degrees or lens fully down to tilt the beams downwards 4 degrees. (Refer to the separate graphs overleaf if the ground is sloping.)

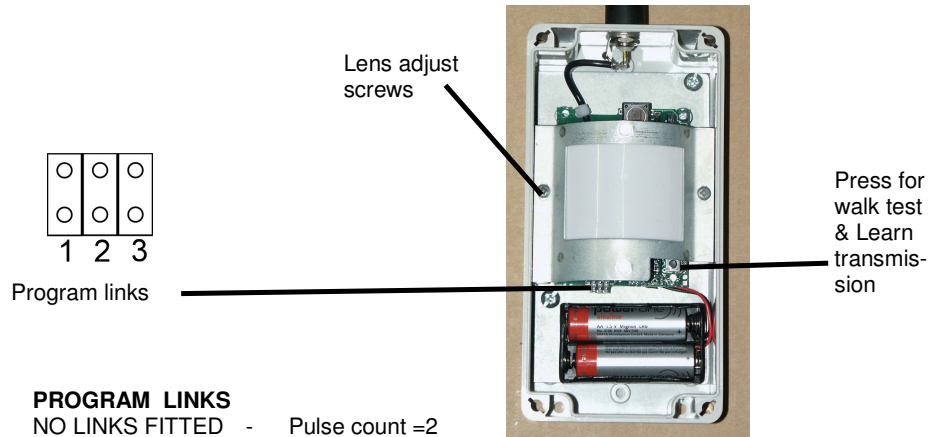


Normal PCB central



**WALK TEST BUTTON** has two functions:

1. When pressed for one second sends a Learn transmission to the control panel, enabling the device to be learned in and RSSI measurements taken.
2. Provides a user walk test facility for two minutes.



### PROGRAM LINKS

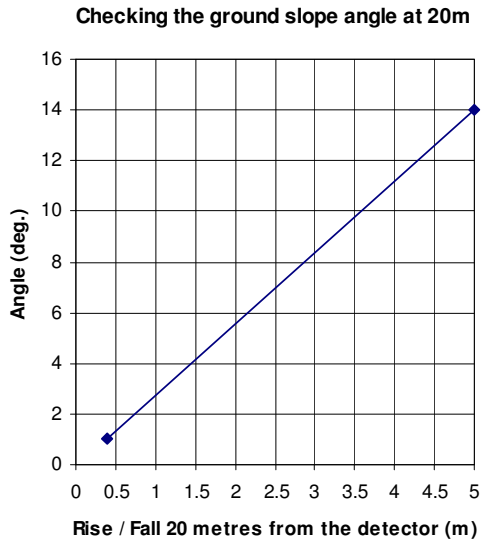
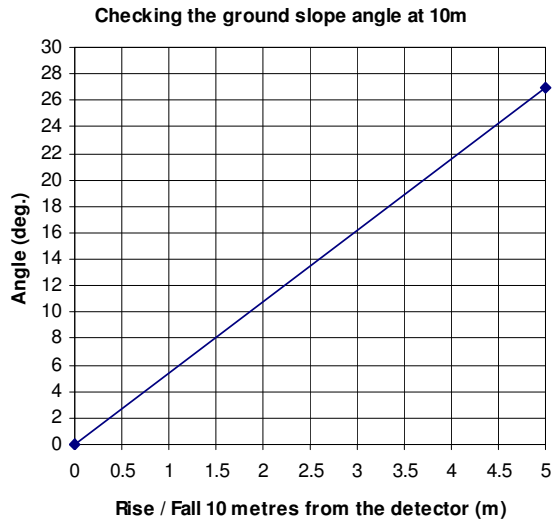
- NO LINKS FITTED - Pulse count =2
- LINK 3 FITTED - No pulse count
- LINK 2 FITTED - Pulse count = 4
- LINK 1 FITTED - Overrides the 2 minute inhibit. With this link fitted the PIR will transmit again after 2 minutes with continuous movement present. Link 1 is unaffected by links two or three

### ADDING A DETECTOR TO ANY FM4000 SERIES CONTROL PANEL OR FM4040 INTERFACE

1. Connect the batteries. The detector will take approx. 5 minutes to settle. So although you can program it, the PIR will not detect movement for the initial 5 minutes & until 2 or more minutes of no movement have been detected in normal operation.
2. Enter the engineers program by keying in 4679 or your engineers code. (The alarm LED will illuminate to indicate that you are in engineer mode).
3. Key in the number of the zone to which the detector is to be allocated. i.e. 01 for zone 1. 08 for zone 8.
- 3a **FM4000EN, FM4000X & FM4000Xtra only.**  
Select the device number you wish to learn onto the zone, i.e. press 1 for the first device, press 2 for the second device etc.. Up to 8 devices may be added to a single zone.  
**(These panels require 3 digits to learn a detector onto them: Zero, Zone number then device number. ie ZONE 1 Detector 1 is 011)**
4. Press the walk test & Learn button on the pir. The control panel will bleep twice a zone LED will illuminate to indicate that one more detector is programmed onto that zone.
5. Press the Full Set key to accept.
6. Key in 48 to exit engineer programming.

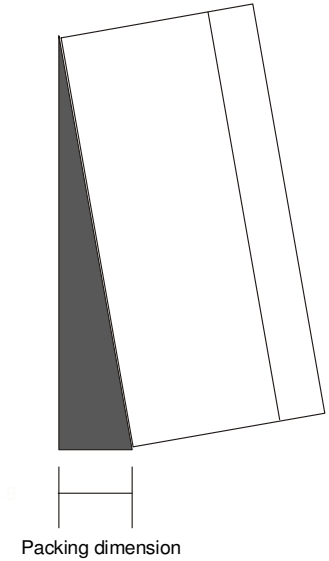
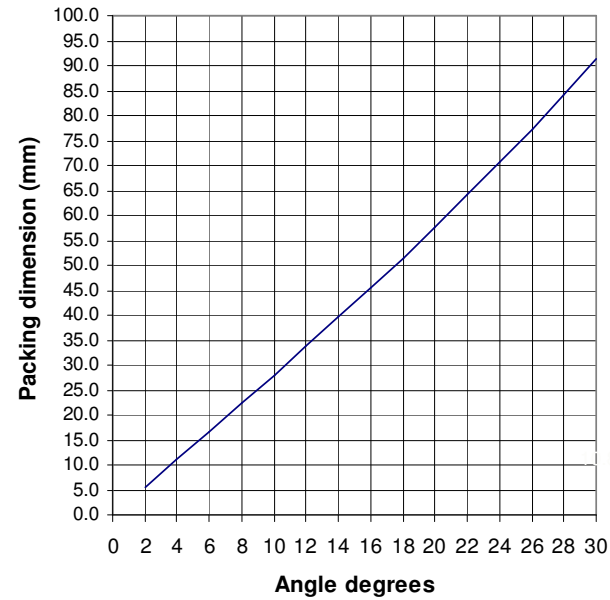
## ESTABLISHING THE ANGLE OF GROUND SLOPE

If the ground is not level, the detector will need to be tilted at the same angle. The graph below gives the angle of the ground slope by measuring the rise (or fall) 10 metres and 20m from the detector.



Packing dimension for a specific angle is given in the following graph.

## Tilting the detector



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