Description

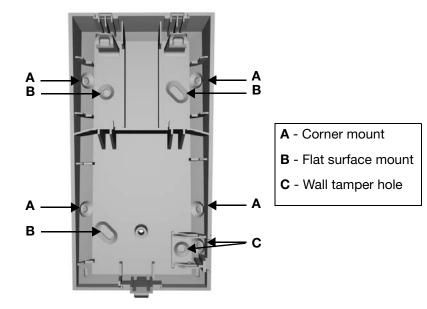
The Paradox PMD2P is an analog single-optic PIR motion detector with built-in pet immunity for use with Magellan wireless receivers/transceivers. The PMD2P is immune to animals weighing up to 18kg (40 pounds), and features automatic temperature compensation.

The PMD2P is battery-powered and features an innovative three minute energy save mode (after two detections within a five-minute period). Also, the ALIVE software in the PMD2P ensures that the alarm LED continues to display when it is in energy save mode without compromising battery life.

Installation

At the installation height of 2.1m (7ft) $\pm 10\%$, the PMD2P provides full coverage from 1.2m (3.9 ft) to 11m(36 ft). Mounting lower than recommended height will decrease the long range performance; higher will decrease short range performance. Do not obscure the detector, partially nor fully.

IMPORTANT: Do not touch the sensor as this could result in malfunction. Clean the sensor surface using a soft cloth with pure alcohol. Also, avoid bending, cutting, or altering the antenna or mounting the detector near metal as this may affect transmission.



Dual Tamper Mechanism - Wall and Cover

The PMD2P is equipped with dual tamper protection; an alarm is generated if the front cover is removed or if the detector is removed from the wall. In order for the wall tamper removal feature to be functional, a screw needs to be inserted in the wall tamper hole (see *PCB Overview at right*).

Powering the Wireless Detector

Verifying proper polarity, insert three "AAA" alkaline batteries into the motion detector's battery compartment. To replace the batteries, remove the old batteries, then press and release the tamper switch and wait 60 seconds in order to reinitialize the unit. After initialization is complete, insert batteries while verifying proper polarity (verify proper polarity on battery compartment connector as well). **IMPORTANT**: Make sure that when reinstalling the battery compartment that the batteries are facing the back-plate.

Power-up Sequence

After inserting the batteries, a power-up sequence begins (lasting 10-20 seconds). During this time, the red LED flashes and the detector will not detect an open zone or tamper.

Signal Strength Test

In order to verify proper signal reception, perform a signal strength test as described in the receiver's Reference and Installation Manual. Prior to performing the test, ensure the batteries have been installed. Also verify that the motion detector has been assigned to a zone according to the instructions in the receiver's Reference and Installation Manual. If the transmission is weak, relocating the transmitter by a few inches can greatly improve the reception.

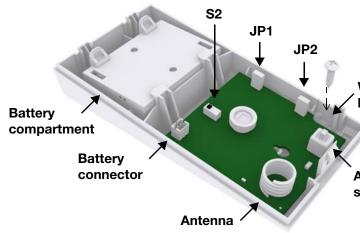
Detector Settings - Quick View

Sensitivity		
S2 (Slider)	High = High sensitivity (default)	
	Low = Low sensitivity	
Fast/Slow Mode		
JP1 (Jumper)	Off = Slow mode	
	On = Fast mode (default)	
LED Feedback		
JP2 (Jumper)	Off = Disabled	
	On = Enabled (default)	

Detector Settings - Details

Sensitivity - S2 (Slider)		
High Sensitivity	In high sensitivity mode, you should no of two beams - left and right sensor ele this setting for the majority of installation	
Low Sensitivity	In low sensitivity mode, the amount of of low sensitivity mode is recommended greater.	
Fast/Slow Mode -	JP1 (Jumper)	
Slow Mode	Recommended in areas where the inci	
Fast Mode	Recommended for the majority of insta	
LED Feedback - JP2 (Jumper)		
Alarm	The red LED will illuminate for a period kind of movement.	
Low Battery	The PMD2P performs a battery test even the red LED flashes at 8 second intervet the receiver. A trouble is generated and	
Signal Transmission	The red LED blinks fast when transmit	

PCB Overview



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not be able to cross more than one complete zone (consisting lements) in the coverage area with any kind of movement. Use tions.

f movement required to generate an alarm is doubled. The use ded in areas where the incidence of false alarms may be

cidence of false alarms may be greater.

tallations.

d of 3 seconds whenever the motion detector detects any

every 12 hours. If battery voltage drops below a certain level, vals and the motion detector will send a low battery signal to a then transmitted to the central monitoring station.

tting.

Wall tamper hole

Anti-tamper switch

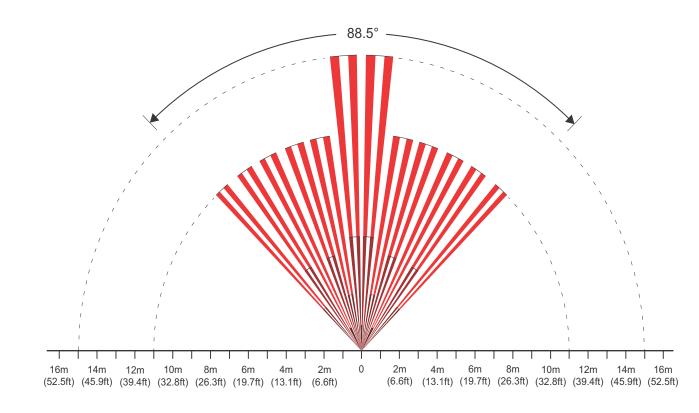
Alive Software

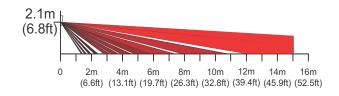
To conserve the motion detector's battery life, if the motion detector transmits two open zone signals (LED on for 3s) within a five-minute period, the detector will fall into Energy Save Mode for approximately three minutes and will not transmit any alarm signals. The red LED will continue to flash to indicate a detection. If the detector's cover is removed and then replaced while in Energy Save Mode, the first detection will trigger an alarm signal.

Walk-testing

To activate Walk-test Mode for three minutes, power up the detector or open and close the detector's cover. With sensitivity set to High (S2 = High), at 20°C, crossing more than one complete zone (consisting of two beams left and right sensor detecting elements) with slow/fast walking or running should initiate an alarm. With sensitivity set to Low (S2= Low), the amount of movement required to generate an alarm is doubled.

Beam Pattern





Specifications

Sensor Type	Dual rectangular element	
Coverage	88.5° - 11m (36ft) x 11m (36ft); Center beams: 15m (49ft)	
Pet Immunity	18kg (40lbs)	
RF Frequency	433 or 868 MHz with Magellan only	
Lens	2nd generation Fresnel lens, LODIFF® segments	
Walk Speed	0.2m to 3.5m/s (0.6ft to 11.5ft/s)	
Battery Type & Life	3 x 1.5vDC "AAA" alkaline batteries; 2 years*	
Current Rating	31uA standby / 15mA alarm	
Transmitter Range	35m (115ft) with MG6130 / MG6160 70m (230ft) with MG5000 / MG5050 / RTX3; in a typical residential environment	
Operating Temp. & Humidity	0°C to 50°C (32°F to 122°F) / 5 to 90% max.	
Dimensions & Weight	6.5 x 12.5 x 5.2cm (2.5 x 4.9 x 2.0 in) / 105 g (3.7 oz) with batteries	
RF Immunity	EN 50130-4: 10V/m 80MHz to 2.7GHz	
Compatibility	See paradox.com for compatibility details	
Certification	EN 50131 Grade 2 Class II; Certification body Intertek	
* Battery life expectancy will vary according to the amount of traffic (movement) detected. Higher traffic levels will lower battery life.		

Warranty: For complete warranty information on this product, please refer to the Limited Warranty Statement found on the Web site www.paradox.com/terms. Your use of the Paradox product signifies your acceptance of all warranty terms and conditions.

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