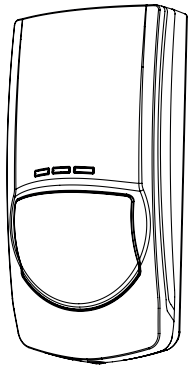
DPM310

Installation Instructions



Anti-Masking
Digital PIR Detector

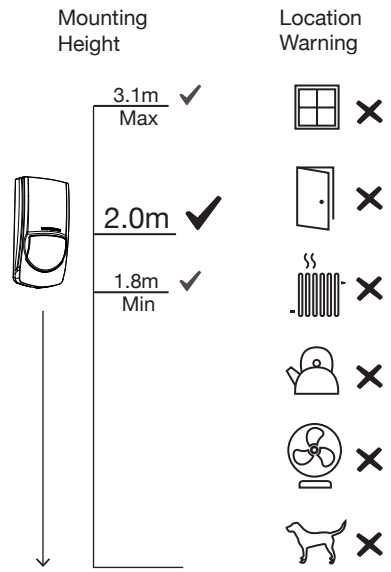
www.pima-alarms.com

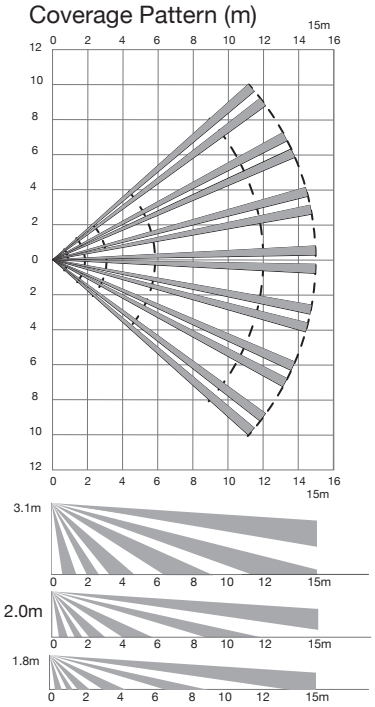
Key Features

- Anti-Masking
- Triple or Dual EOL
- 15 Metre Range
- Multi Height Optics
- 1.8m - 3.1m Mounting Height
- Interchangeable Cartridges
- Selectable EOL Resistors
- Slide to Fit Front Cover
- Remote LED Control
- Sealed Optics
- True Creep Zones
- Digital Pulse Count†
- Temperature Compensation
- Digital Signal Processing†
- RFI Immunity up to 2.7GHz

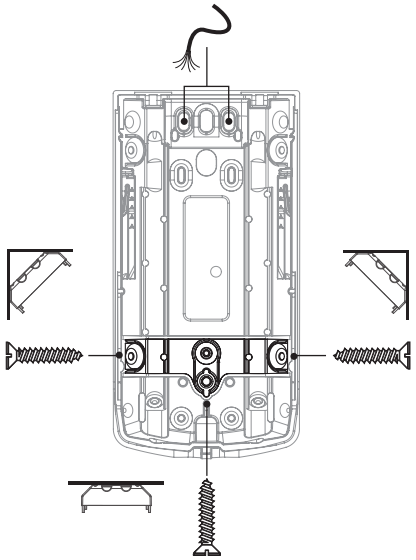
†Patent Pending

1 Location





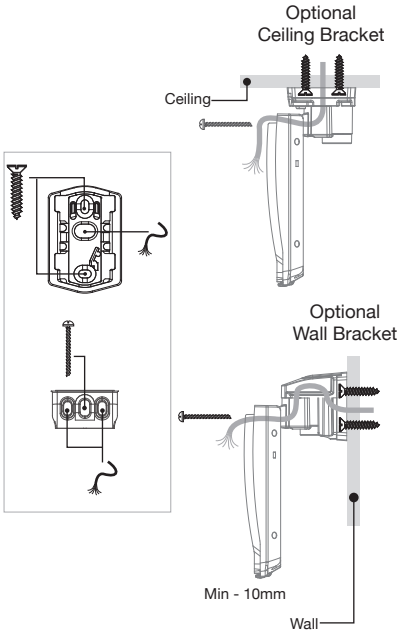
2 Mounting without bracket



Fit screw(s) here to activate wall tamper when removed from mounting surface

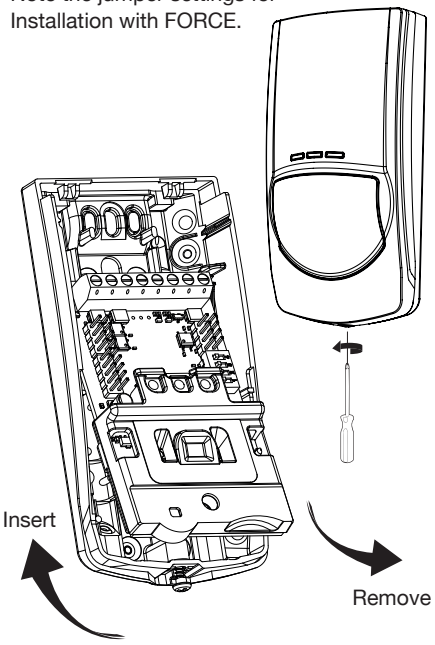
or

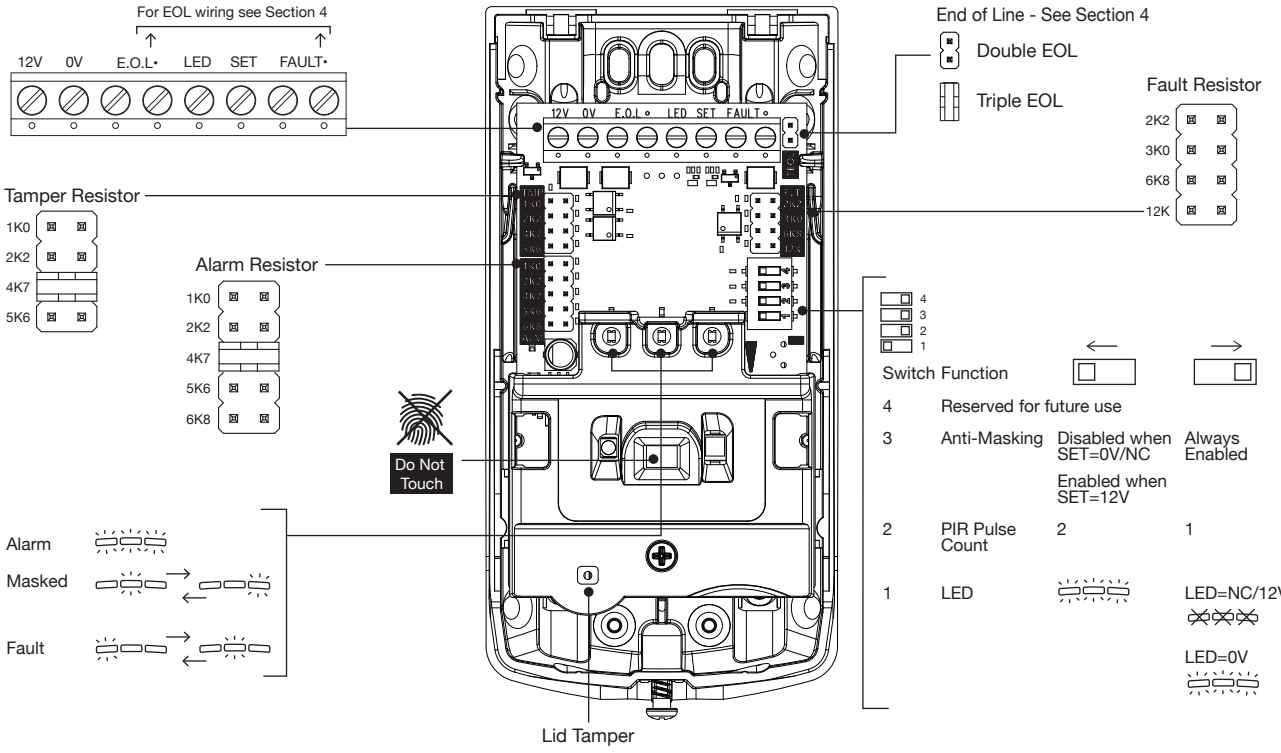
Mounting with bracket - Grade 2 only



3 Detector Setup

Note the jumper settings for Installation with FORCE.

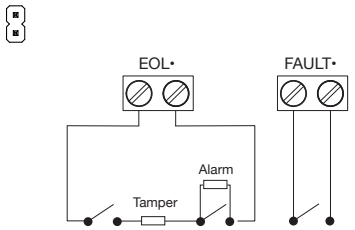




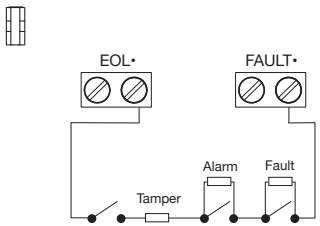
4 EOL Resistors Output

The EOL output terminals can operate as either Double (DEOL) or Triple EOL (TEOL), using End of Line Jumper:

DEOL - Double End of Line



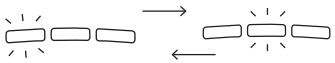
TEOL - Triple End of Line



5 Self-Test

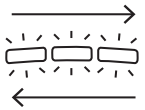
The detector runs a local self-test every 24 hours. If the local self-test fails, the detector will signal a fault. If the local self-test passes the detector will function as normal.

A fault will also be signalled if the supply voltage drops below 9V.



6 Anti-Masking Calibration

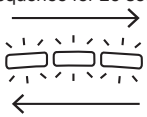
1. When power is applied and the cover screw is fully closed the LEDs flash in sequence for a 5 second warning period to show that calibration is about to commence.



2. After 5 seconds the LEDs will stop flashing and the calibration procedure will commence.

IMPORTANT Ensure that there are no objects close to the detector during calibration.

3. After approximately 60 seconds calibration will end and this is signalled by the LEDs flashing in sequence for 20 seconds.

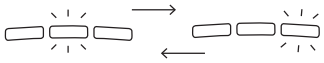


To recalibrate a detector, simply open the cover so the tamper is open, then close back up again to close the tamper.

7 Anti-Masking Operation

When an object is in close proximity to the lens so that the PIR is no longer able to detect movement, the detector will generate a Mask condition within 10 seconds.

A Mask condition is indicated by generating Alarm and Fault signals simultaneously. If the LEDs are enabled the middle and right LEDs will flash alternately.



The Mask condition is cleared 10 seconds after the object is removed or when the PIR is triggered.

8 FORCE Setting

Set the FORCE Alarm System as follows:

- Two EOL resistors
- Resistor values – 100 (=10K)
- Alarmed zone – EOL protected
- Mask zone – 24hrs, no EOL

Specification

Description	Passive Infrared Detector
Pyro Electric Sensor	Dual Element
Range	15m
Optics	Multi Height Spherical
Detection Areas	68
Mounting Height	1.8m - 3.1m
Supply Voltage	9 - 15VDC (12V nominal)
Quiescent Current	15mA
Alarm (LED enabled)	15mA
Alarm (LED disabled)	10mA
LED Control = 0V	LED Enabled
LED Control = 12V / NC	LED Disabled
Pulse Count	Digital
Start-up Time	60 seconds
Alarm Time	> 2 seconds
Target Speed	0.3m/s - 3.0m/s
Dimensions (whd) mm	60 x 118 x 40
Housing Material	2.5mm ASA
Operating Temperature	-20°C to +55°C
Storage Temperature	-35°C to 60°C
Maximum Humidity	95% non-condensing
Product Weight	105g
Packed Weight	120g
Maintenance	Annual Installer Check

Ordering Information

CAT. P/N	5010156
Description	DPM310 Anti-Masking PIR Detector

Standards and Approvals

Security

PD 6662:2017
EN 50131-2-2:2017 Grade 3, Class II

EMC / False Alarm Immunity

EMC Immunity:	EN 50130-4:2011 +A1:2014
Radiated Immunity:	80MHz to 2.7GHz
Electrostatic Discharge:	+/- 8kV
Conducted Immunity:	0.15MHz to 100MHz
Fast Transient Immunity:	2kV
Conducted & Radiated Emissions:	EN 55032:2015 +AII:2020
	EN 300 440-1 V1.6.1 2010-08

Conforms to European Union (EU) Radio Equipment Directive 2014/53/EU, Electro-Magnetic Compatibility (EMC) Directive 2014/30/EU
EMC Environment: Residential / Commercial / Light Industrial / Industrial
Conforms to RE Directive 2014/53/EU

Warranty

The DPM310 is guaranteed against defects in material or faulty workmanship for a period of 10 years from the date of purchase. Disclaimer: PIMA will not accept any liability based on a claim that the DPM310 failed to perform correctly as it is a component part of an installation and not a complete intruder alarm system.

Regulatory

WEEE Directive: 2012/19/EU Compliant: This symbol indicates that the product should not be disposed of as municipal/household waste. Instead, it should be disposed of at the appropriate collection points designated for the recycling of electrical and electronic equipment, or returned to PIMA upon purchase of new replacement products.

RoHS RoHS Directive: 2011/65/EU Compliant: PIMA declares that this product complies with and conforms to RoHS legislation that it does not contain more than the agreed levels of: Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent chromium (Cr6+), Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE)

CE EU & UK Registered Design

Designed and Manufactured in the United Kingdom

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