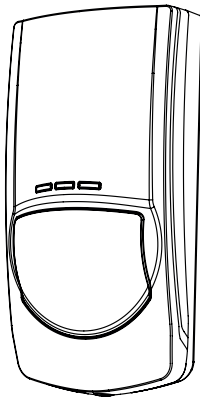




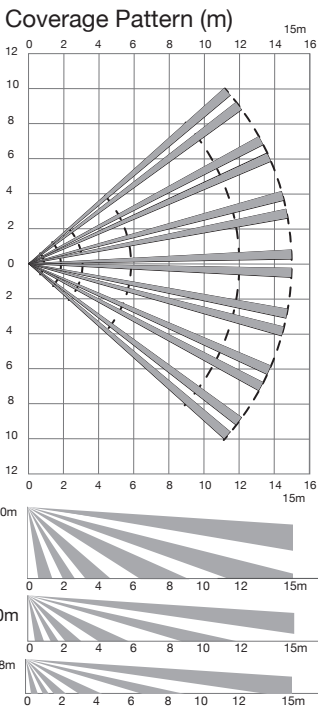
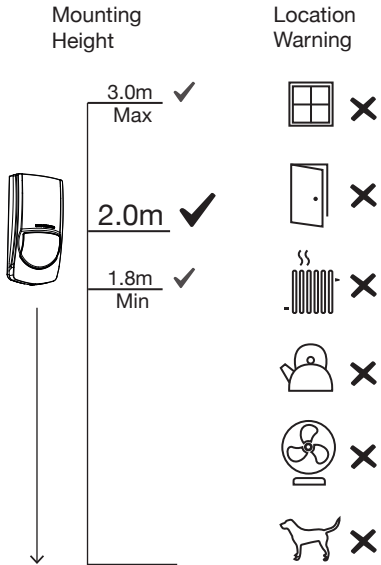
DPM310 V1

With Separate Alarm,
Tamper & Fault Outputs

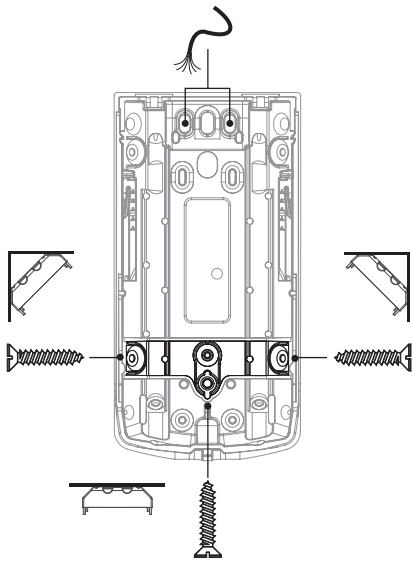


Anti-Masking PIR Detector
www.pima-alarms.com

1 Location

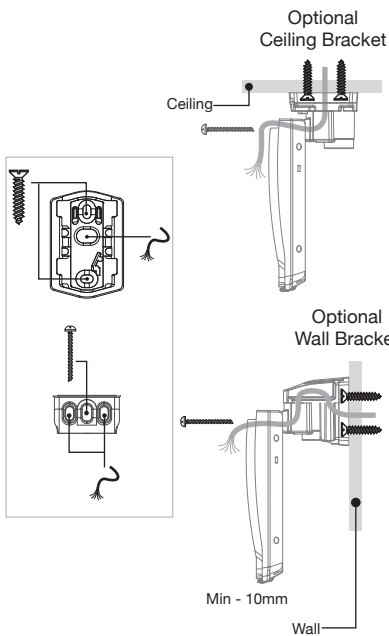


2 Mounting without bracket



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

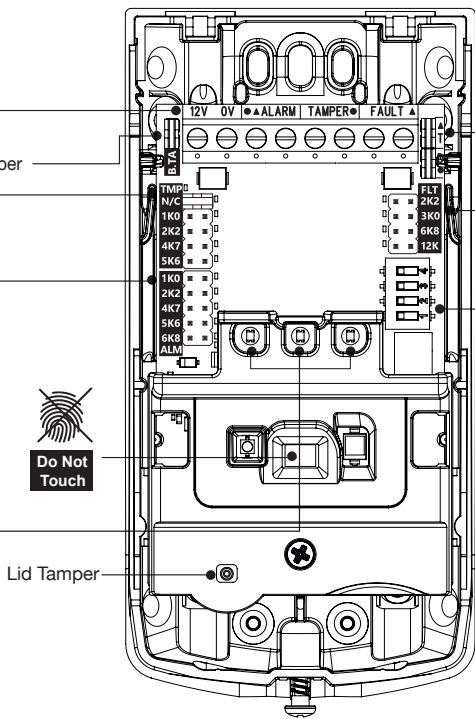
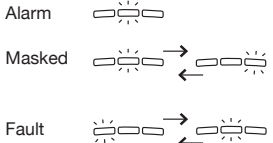
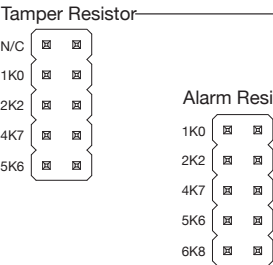
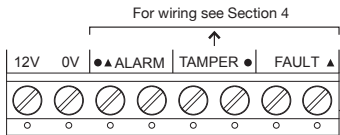
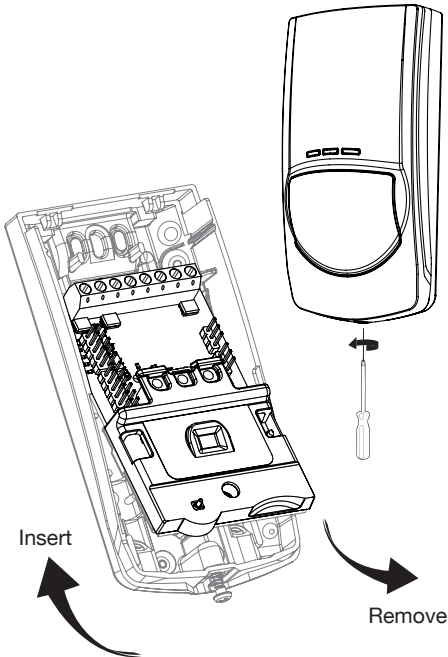
or Mounting with bracket



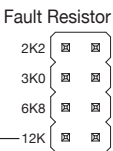
Key Features

- Anti-Masking
- Single N/C, Double or Triple EOL
- 15m Range
- Multi Height Optics
- 1.8m - 3.0m Mounting Height
- 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

3 Detector Setup



Double/Triple End of Line - See Section 4



No	Function	←	→
4	Reserved	-	-
3	Reserved	-	-
2	PIR Pulse Count	2	1
1	LED		

LEDs will be disabled
2 minutes after
calibration sequence
has finished

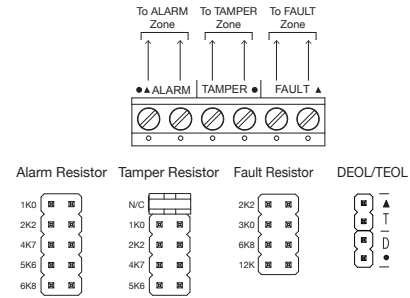
†Patented

4 Output Options

The output terminals can operate as:

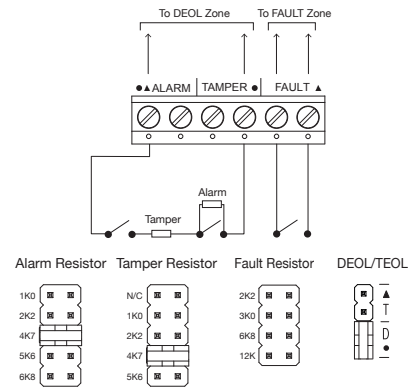
- Separate N/C Outputs,
- Double (DEOL) or,
- Triple TEOL (TEOL).

i. Separate N/C Alarm, Tamper & Fault Outputs



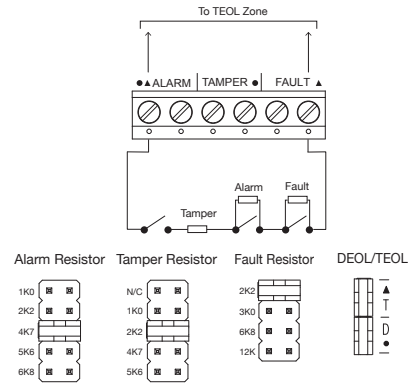
Fit link across the N/C position on the Tamper Resistor and Remove links for Alarm and Fault Resistors

ii. DEOL - Double End of Line plus Fault



Fit links for the Alarm and Tamper Resistors and remove link from Fault Resistor.

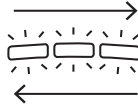
iii. TEOL - Triple End of Line



Fit links for the Alarm, Tamper and Fault Resistors

5 Anti-Masking Calibration

- When power is applied and the cover screw is fully closed the LEDs flash the version number 4 times then calibration starts and the LEDs flash in sequence.



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

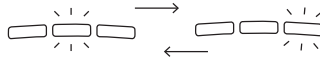
- After approximately 60 seconds calibration will end and the detector will operate as normal.

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

6 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.

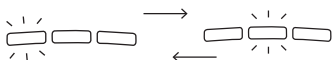


The Mask condition is cleared 10 seconds after the object is removed or when the PIR is triggered.

7 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. During local self-test the detector will be inhibited for 10 s.

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



Specification

Description	Dual Technology Combined Microwave (24GHz) / PIR
Pyro Electric Sensor	Dual Element
Range	15m
Optics	Multi Height Spherical
Detection Areas	68
Mounting Height	1.8m - 3.0m
Supply Voltage	9 - 15VDC (12V nominal)
Quiescent Current	15mA
Maximum Current	19mA
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	110g
Packed Weight	125g
Maintenance	Annual Installer Check

Standards and Approvals

Security
PD 6662:2017
EN 50131-2-2:2021 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 +A1:2020 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

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)



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.



Designed and Manufactured
in the United Kingdom

PIMA Electronic Systems Ltd.
5, Hatzoref St., Holon 5885633, Israel
Tel: +972.3.6506411
Email: support@pima-alarms.com

PIMA P/N for order - 5010156 (Rev V1)

Document P/N - 4410566 Rev B (Sep 2024)

