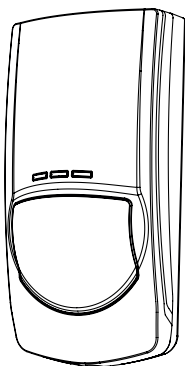


DT-200-AM

INCERT Approved
Installation Instructions



Anti-Masking
Digital Dual Technology Detector

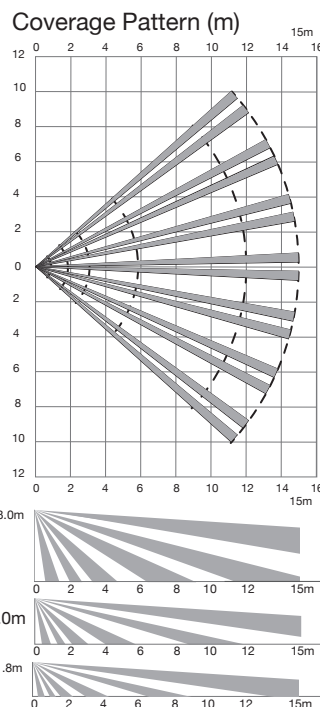
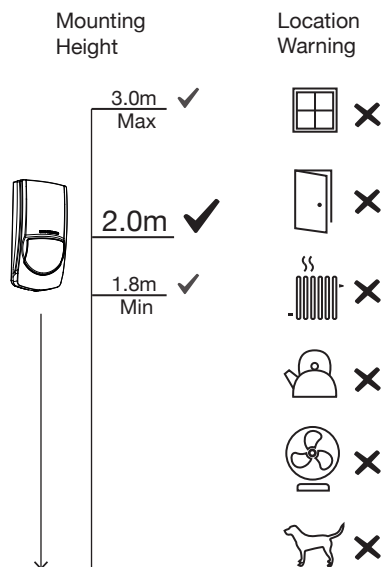
www.orisec.co.uk

Key Features

- Anti-Masking
- Dual Technology Combined Microwave (24GHz) / PIR
- Triple or Dual EOL
- 15 Metre Range
- Multi Height Optics
- 1.8m - 3.0m 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

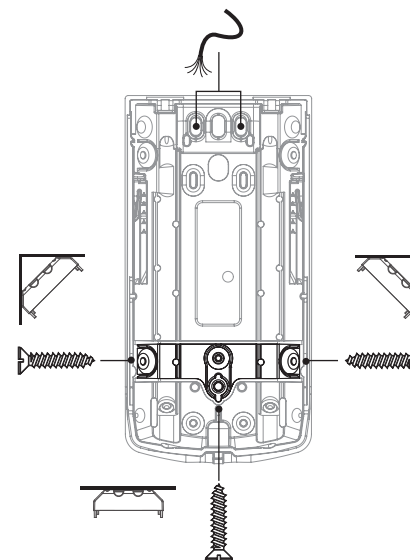
1 Location



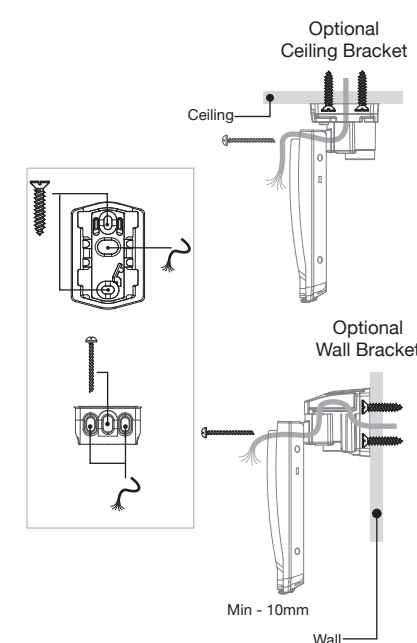
2 Mounting without bracket

or

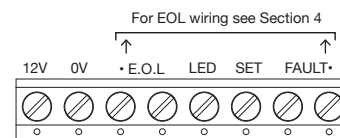
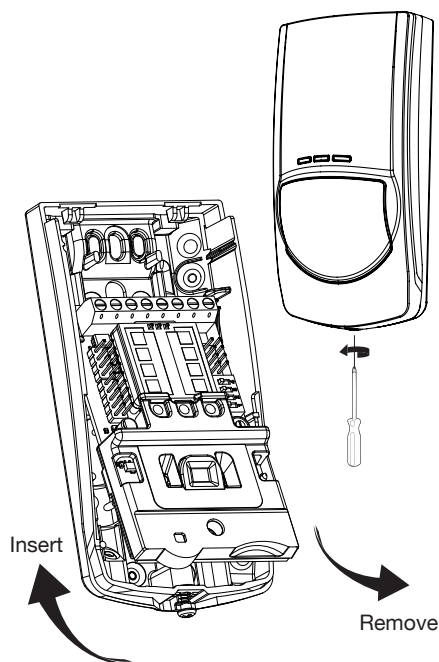
Mounting with bracket



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

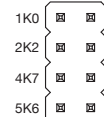


3 Detector Setup

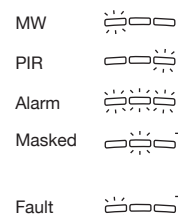
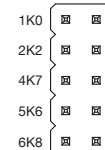


Bracket Tamper

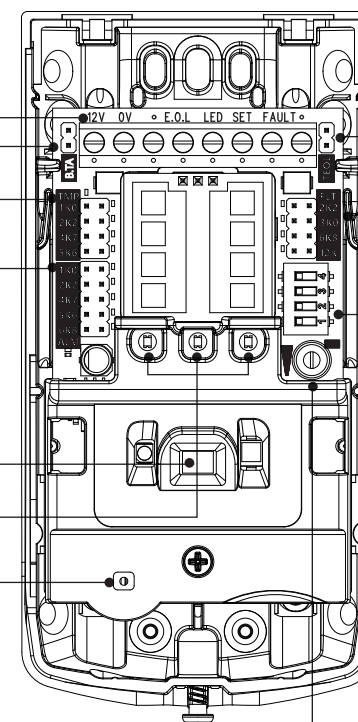
Tamper Resistor



Alarm Resistor



Lid Tamper



End of Line - See Section 4

Double EOL

Triple EOL

Fault Resistor



Switch Function	Position 1	Position 2	Position 3	Position 4
MW On/Off	Enabled when SET=0V/NC	Disabled when SET=12V	Always On	Always On
Anti-Masking	Disabled when SET=0V/NC	Enabled when SET=12V	Always Enabled	Always Enabled
PIR Pulse Count	2	1		
LED				

MW Range Adjustment

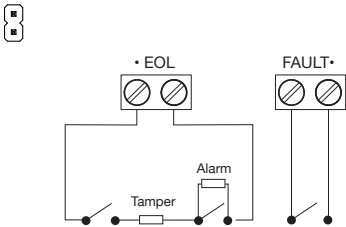
Max
Min

3.5m to 15m
(Actual MW range will vary due to reflections. Always walk test to verify coverage)

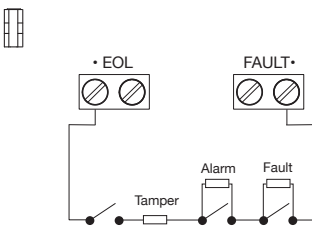
4 EOL Resistors Output

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

DEOL - Double End of Line

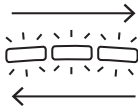


TEOL - Triple End of Line



7 Anti-Masking Calibration

- 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.

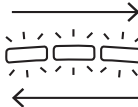


- After 5 seconds the LEDs will stop flashing and the calibration procedure will commence.

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



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

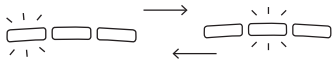


To recalibrate a detector, simply open the cover so the tamper is open, then close back up again to close the tamper.

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. 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.



6 Microwave Disable

The detector can be configured so that microwave element is disabled during the unset state, thus causing the detector to operate in PIR mode only. To use this feature, connect the SET input to an output that switches to 12V when unset and move dip switch 4 to the 'on' position.

Specification

Description	Dual Technology Combined Microwave (24GHz) / PIR
Pyro Electric Sensor	Dual Element
Range	3.5m to 15m
Optics	Multi Height Spherical
MW Frequency	24.15 - 24.25 GHz
Detection Areas	68
Mounting Height	1.8m - 3.0m
Supply Voltage	9 - 15VDC (12V nominal)
Quiescent Current	32mA
Maximum Current	45mA
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

Standards and Approvals

Security
PD 6662:2017
EN 50131-2-4:2020 Grade 3, Class II
T031 INCERT * : C-056-1528

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
+All: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

* For INCERT approved installations the zone response time should be set to e.g. 80 - 120 ms for fast sabotage detection. On Orisec control panels enable the Fast Response zone attribute which has a default setting of "10" x 10 ms = 100 ms.

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 Orisec upon purchase of new replacement products.

RoHS RoHS Directive: 2011/65/EU Compliant: Orisec 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)

Certification body: Kiwa 

 **0682** 

CE: You can view the product EC Declaration of Conformity here: orisec.co.uk/compliance

8 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.

9 Indication of Detection

For Grade 3 installations Switch 1 must be set to the right hand position (the left hand position is disallowed for Grade 3), this will select Remote enabling and disabling of LED indicators as a higher priority than Local enabling and disabling. For Grade 2 installations Switch 1 can be set to either the left hand or right hand position.

Warranty

The DT-200-AM is guaranteed against defects in material or faulty workmanship for a period of 10 years from the date of purchase. Disclaimer: Orisec will not accept any liability based on a claim that the DT-200-AM 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

UK Based Technical Support:
t: +44 (0) 1706 398740
e: support@orisec.co.uk

Manufacturer: Orisec Ltd, 1 St Crispin Way, Haslingden, Lancashire. BB4 4PW. United Kingdom

© Copyright Orisec Ltd 2024