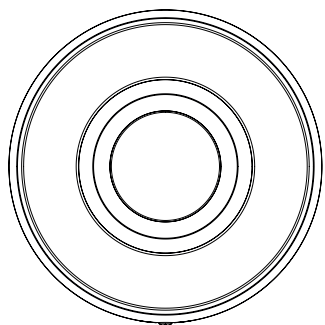# Orisec

DT-360-AM

Installation Instructions

Anti-Masking 360 Ceiling Mount Quad PIR + Dual Technology
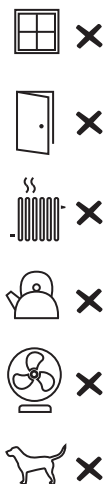
www.orisec.co.uk

Key Features

- Grade 3 Anti-Masking Ceiling Mount
- Quad PIR + Microwave (24GHz)
- Dual or Triple EOL
- 2.4m – 4.0m Mounting Height
- Free-form Fresnel lens†
- Selectable EOL Resistors
- Remote LED Control
- Sealed Optics
- Digital Pulse Count†
- Temperature Compensation
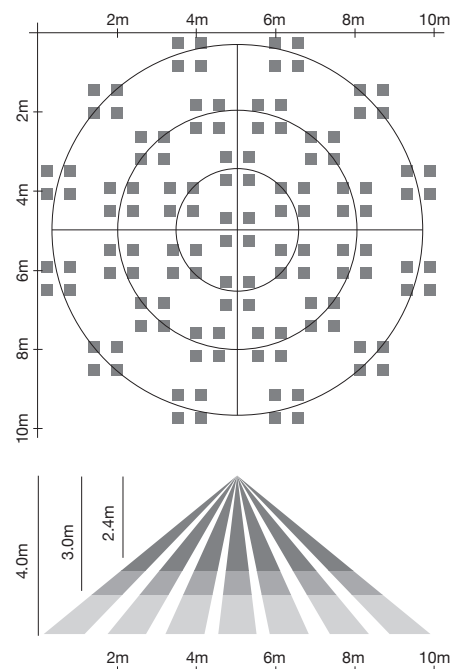- Advanced Signal Processing†
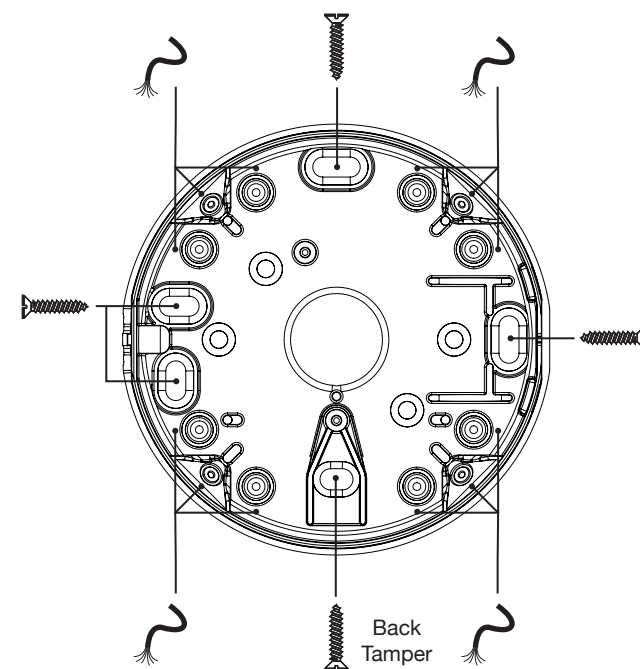- RFI Immunity up to 2.7GHz
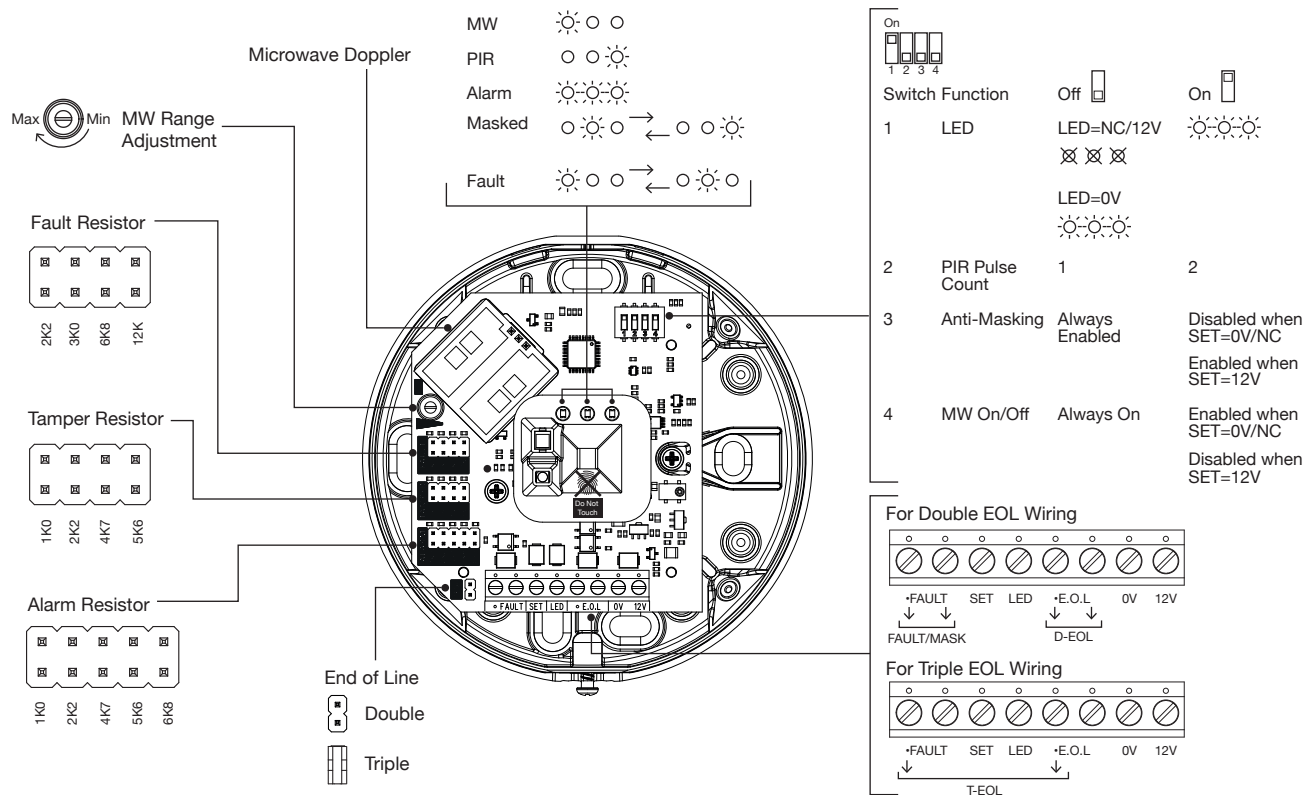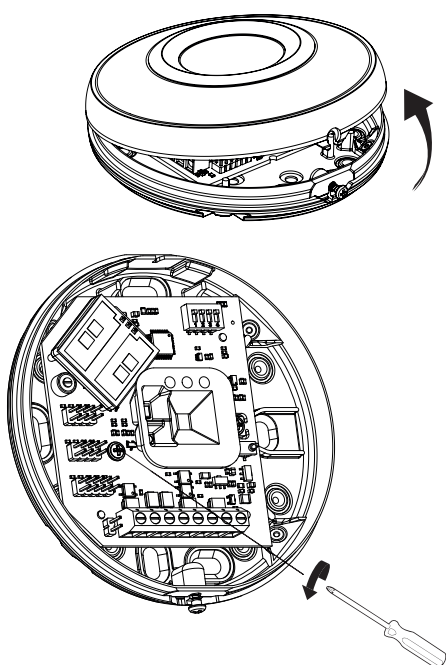
†Patent Pending

1 Location

Location Warning

Coverage Pattern

2m 4m 6m 8m 10m

2m 4m 6m 8m 10m

3.0m / 2.4m / 4.0m

2 Mounting

Back Tamper

3 Detector Setup

Max — Min MW Range Adjustment

Microwave Doppler

Fault Resistor

| 2K2 | 3K0 | 6K8 | 12K |

Tamper Resistor

| 1K0 | 2K2 | 4K7 | 5K6 |

Alarm Resistor

| 1K0 | 2K2 | 4K7 | 5K6 | 6K8 |

End of Line

- Double
- Triple

•FAULT SET LED •E.O.L 0V 12V

MW	☼ ○ ○
PIR	○ ○ ☼
Alarm	☼ ☼ ☼
Masked	○ ☼ ○ → ○ ○ ☼
Fault	☼ ○ ○ → ○ ☼ ○

On
1 2 3 4

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

For Double EOL Wiring

•FAULT   SET   LED   •E.O.L   0V   12V

FAULT/MASK   D-EOL
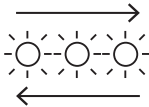
For Triple EOL Wiring

•FAULT   SET   LED   •E.O.L   0V   12V

T-EOL

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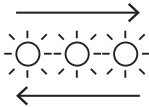
2. After 5 seconds the LEDs will stop flashing and the calibration procedure will commence.

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

3. After approximately 1 – 2 minutes calibration will end and this is signalled by the LEDs flashing in sequence for 20 seconds.
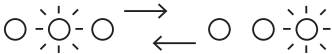
To recalibrate a detector, simply open the cover so the tamper is open, then close back up again to close the tamper.

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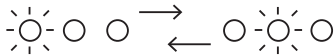
The Mask condition is cleared 10 seconds after the object is removed or when the PIR is triggered.

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.

Microwave Disable

The detector can be programmed to disable the microwave when the system is unset. Connect the SET input to an output that switches to 12V when unset and move dip switch 4 to the 'on' position.

Specification

Description	Anti-Masking 360 Ceiling Mount Quad PIR + Dual Technology
Pyro Electric Sensor	Quad Element
Optics	Free-form Fresnel
Detection Areas	124
MW Frequency	24.15 - 24.25 GHz
Mounting Height	2.4m - 4.0m
Supply Voltage	9 - 15V$_{DC}$ (12V nominal)
Quiescent Current	10mA
Alarm (LED enabled)	15mA
Alarm (LED disabled)	7mA
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	108 x 108 x 31
Housing Material	3mm ASA
Operating Temperature	-20°C to +55°C
Storage Temperature	-35°C to 60°C
Maximum Humidity	95% non-condensing
Product Weight	90g
Packed Weight	115g
Maintenance	Annual Installer Check

Standards and Approvals

Security
PD 6662:2017
EN 50131-2-4:2008 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+ A11:2020

Conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 2014/30/EU and EN 50130-4:2011+A1:2014

EMC Environment: Residential / Commercial / Light Industrial / Industrial

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

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

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Warranty

The DT-360-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-360-AM 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 according to local laws and regulations, this 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. This will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

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)

Orisec

Designed and Manufactured in the United Kingdom

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

BS EN ISO 9001 : 2015
Registered Firm
Certificate No. GB2005228

International Accreditation Board
Registration No. 0044/1

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