

# Internal Detectors

The TMD15: 15m Digital Dual Technology and Combined Non-overlapping Detector.



**TMD15<sup>®</sup>**  
GRADE 3

The TMD15<sup>®</sup> is a unique product boasting 2 non-overlapping detectors; a PIR and a Dual Technology in 1 robust housing.

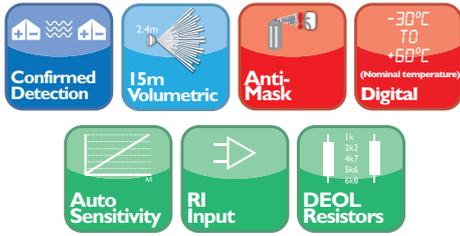
Based on Pyronix' tried and tested patented technologies which has been proven over the last 25 years coupled with innovative features, the TMD15<sup>®</sup> offers you outstanding detection performance with optimum reliability designed to meet the latest industry regulations.



**Pyronix<sup>®</sup>**  
[www.pyronix.com](http://www.pyronix.com)

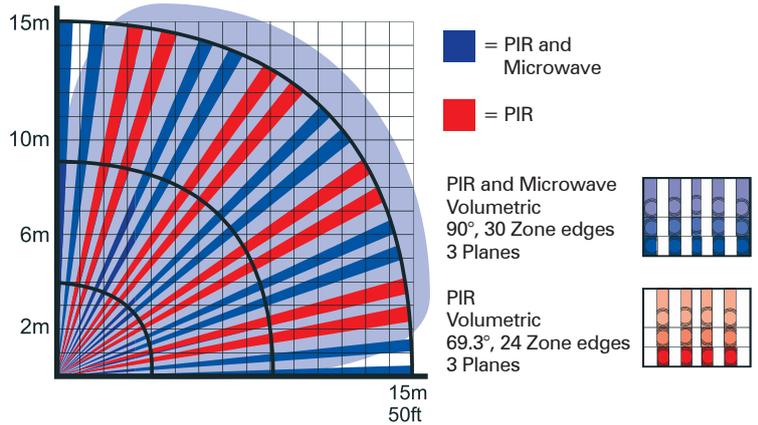
# Features and Specifications

## The TMD15 Features



EN50131-2-4:2008  
EN50131-1:2006+A1:2009  
PD6662:2010  
Environmental Class II

## Lens Coverage



## Patented Anti-Masking Technology

Pyronix' patented technology offer the ultimate in masking detection. Unlike other detectors on the market, there is mask protection on both the PIR and Microwave.

No matter what substance is used to mask; paper, sprays, lacquers, cellotape, cardboard boxes, once the protective microwave anti mask bubble has been breached and either technology masked, the TMD15<sup>®</sup> will go into a mask condition.

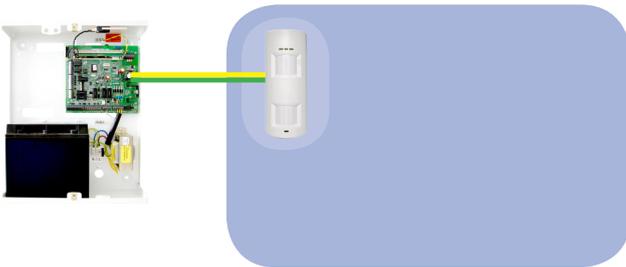


## Anti-Blocking Technology

This high security mode provides blocking detection in day mode, ensuring the ultimate protection against accidental or deliberate blocking.

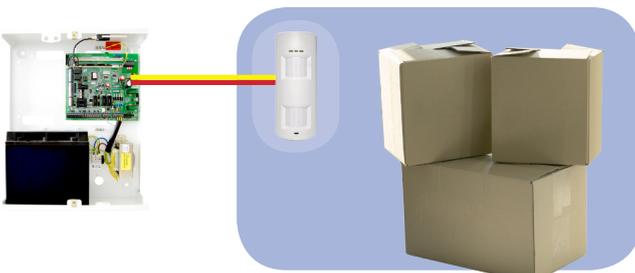
### Scenario 1

The detectors field of view is clear = the panel can be armed.



### Scenario 2

The detectors field of view is partially blocked = the panel cannot be armed until the blockage is removed.



## BS8243:2010

The 2 detectors within the TMD15<sup>®</sup> are non-overlapping and have separate relay outputs. These outputs signal independently to the control panel and consequently the ARC (Alarm Receiving Centre) in the event of an activation. The TMD15<sup>®</sup> enables a cost effective and efficient sequential confirmation system.

## EN50131-2-4 / EN50131-1 / PD6662

The TMD15<sup>®</sup> boasts an Anti-Masking feature, where PIR and Microwave are both Anti-Mask protected. This means that the TMD15<sup>®</sup> is suitable for use in high risk environments and for use in EN50131-2-4 / EN50131-1 / PD6662 Grade 3 systems.

## Foam Gasket Sealed Optics

Forms a sealed area between the sensing element and lens, stopping air flow and insect infestations in the optics, reducing the potential risk of false alarm activations.

## Specification

Supply Voltage	9-16V
Current Consumption	<30mA
Relay Output	3 x SELV limits; 60VDC 50mA (42.4 Vac peak)
Mounting Height	1.8m - 2.4m = 15m 3m = 12m
Certified Mounting Height	2.4m
Detection Speed	0.25 - 2.5m/s
Lenses	2 Volumetric lenses, with no overlapping zones
Detection Method	2 Low noise dual element passive infrared sensors and a microwave doppler unit
Anti-Masking Detection Range	0m - 1m
Dimensions	177 x 70 x 40mm
Warranty	5 years

