

TMD15®

15m Digital Dual Technology and Combined
Non-overlapping detector, with Anti-Mask, PIR and
Microwave detection



EN50131-2-4:2008

EN50131-1:2006+A1:2009

PD6662:2010

Security Grade 3

Environmental Class II



ENGLISH

Anti-Masking

The TMD15 is able to detect when one or both PIR detectors as well as the Microwave module are masked. For this purpose it uses the patented Anti-Masking technology where the detection is done via the Microwave technology. The Anti-Masking technology is able to detect masking of the detector with aluminium foil, spray and any object position on or in front of the detector with the purpose of obstructing the field of view of the PIR or Microwave sensors.

As soon as an object enters the masking area of protection (this is adjustable between 0 to 1m) the TMD initialises the mask processor. The Blue LED starts flashing to show this process has been initiated. The mask processing continues for total of 1 minute and is divided into 2 groups of 30 sec intervals. If during the second 30 sec interval the obstruction is removed and all 3 technologies are activated the detector will be reset to normal working condition and the masking processing will be stopped. If the obstruction is not removed then at the end of the 1 minute timer the MASK and ALARM relay will open and the Green and Orange LEDs will be permanently activated.

Blocking

The blocking feature allows the detection of obstruction of the TMD located further than the max of 1m the Anti-Mask feature can detect. The blocking feature is very useful when there is the risk for an intruder to access the perimeter behind obstructions such as pallets or any other tall enough object located within the field of view of the detector. When the blocking feature is active the Alarm relay will open and the Green and Orange LEDs will be activated.

TriCover®

If Switch 7 is ON: Alarm 1 (Dual Tech/Anti-Mask) and Alarm 2 work independently of each other.

If Switch 7 is OFF: Alarm 1 (Dual Tech/Anti-Mask) and Alarm 2 work together (TriCover®) through the Alarm 1 terminals.

RI Input

A RI is used to enable the Anti-masking and Blocking feature when DIP2 and DIP3 are programmed to OFF. It is required to connect the RI input to an output that follows the Arm/Disarm status of the panel and gives Negative (0v/-/GND) when disarmed and Positive (COM/+12v) when armed.

B To remotely enable the LEDs: Connect LED terminal to a walk test PGM on the control panel: 0V = Walk Test On. 12V = Walk Test Off

Technical Specification

Casing: 3mm polycarbonate, 0.4mm HDPE in Lens Area

Lenses: 2 x Volumetric lenses with no overlapping zones

Detection Method: 2 low noise dual element passive infrared sensors and a microwave doppler unit

Sensitivity Selectable: AUTO or HIGH

Microwave Detection Range: 15m PIR and 1-15m Microwave

Anti-Mask Detection Range: 0m-1m Anti-Masking

Temperature Compensation: Digital

Detection Speed: 0.25 - 2.5m/s

Detection Zones: 27 facets, 54 zones in total.

Top lens: 5 columns, 15 facets, 30 zones. 90° field of view non-overlapping zones.

Bottom lens: 4 columns, 12 facets, 24 zones. 69° field of view non-overlapping zones.

Operating Voltage: 9-16VDC, 13.8VDC typically

Current Consumption: 24mA @ 13.8VDC quiescent

Relay Output: 3 x SELV limits, 60VDC 50mA (42.4VAC peak)

Mounting Height & Range: 1.8m - 2.4m = 10m (Lens 5)

1.5m = 10m (Lens 3)

Pet Immunity: 10kg (2 x Volumetric)

Tamper Switch: 12VDC 50mA both front and rear

Storage Temperature: -40°C to +80°C (+40°F to 176°F)

Operating Temperature: -30°C to +70°C (+22°F to 158°F)

Emissions EN55022 Class 2

Dimensions: 177 x 70 x 44mm

Warranty

This product is sold subject to our standard warranty conditions and is warranted against defects in workmanship for a period of two years. In the interest of continuing improvement of quality, customer care and design, Pyronix Ltd reserves the right to amend specifications, without prior notice.

START



