

# DD105C

## PIR/MW DETECTOR IRL/UK

### Twin Opposed Antennae

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The DD 100 Series of detectors makes no compromises because it is a dual technology detector. It utilises all the good features of our PIR's, including sealed Gliding Focus Mirrors and the latest 4D signal processing. Add to that the Aritech high quality microwave, where the latest design using Twin Opposed Antennae has been used to ensure a better signal to noise ratio and better microwave direction. The end result are products with sharp detection and excellent false alarm immunity.

### Distance of Motion (DoM) Processing

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This proprietary microwave processing converts the analogue signal into a digital one where the custom ASIC can effectively measure the distance travelled by the intruder, irrespective of the intruders speed or distance from the detector. This gives a significantly more uniform microwave signal over the entire protected area.

### Volumetric Curtains of Detection

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Benefitting from the success of the EV series PIR's, the DD 100 also features solid curtains of detection. Full undercrawl protection gives maximum security while the special characteristics of a "curtain" ensures not only better intruder detection but also better PIR stability from the environment.

### "4D" Signal processing

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4D signal processing is the latest generation of PIR processing taken from the EV 400 Plus. 4D allows the PIR channel to intelligently analyse a signal pattern and distinguish between real human movement and false alarm hazards. The PIR channel in it's own right is resistant to false alarms by analysing the size, shape and speed of successive signals.

### True Range Control

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The DD 100 series is able to adjust both the PIR and Microwave channels. Due to the strength of the Gliding Focus Curtain Mirror, it is possible to reduce how hard the detector is working in smaller rooms, in both the PIR and Microwave channels, making the detector even more stable, without compromising it's excellent detection.

### Accessory

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A wall and ceiling mount bracket is available providing flexibility to install and aim the detector where required.



### Details

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- High performance PIR verified by high quality microwave module
- Precision "Step & Gliding Focus Multi Curtain" mirror optic
- Plug-in electronics
- Sealed optics
- ASIC with "4D" processing providing improved detection and false alarm immunity
- Distance of Motion microwave signal processing
- Selectable range with full undercrawl detection
- On-site individual coverage pattern selection
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- Remote control lines
- Several European security approvals

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### Technical specifications

#### General

Technology	Dual
Anti masking	No
Pet immune	No
Camera	No
Pry-off tamper kit	ST400 (optional)

#### Detection

Max. detection range	12 m
Detection range selection	12 m or 7 m
Coverage (field of view)	86°
Undercrawl protection	Yes
No. of curtains	7
Microwave frequency (nom.)	2450 MHz
Alarm memory	No

#### Wired/wireless

Wired-wireless	Wired
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#### Inputs/outputs

Alarm relay characteristic	NC when energised
Tamper relay characteristic	NC when cover closed
Relay configuration	Isolated or 4k7 EOL
Remote control lines	Walk test

#### Electrical

Operating voltage	9 to 15 VDC
Current consumption	11.5 mA (nom.)

#### Physical

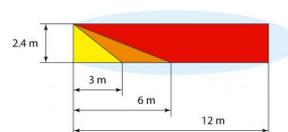
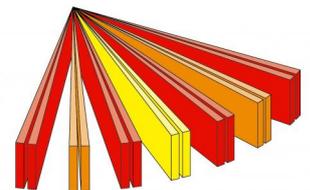
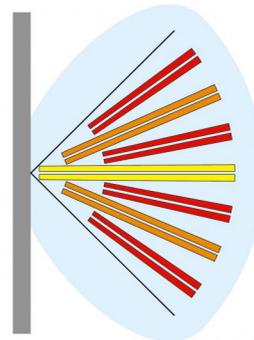
Physical dimensions	61x 123 x 58 mm
Mounting height	1.8 to 3 m

#### Environmental

Operating temperature	-10° to +55° C
Relative humidity	95%
Environment	Indoor

#### Standards & regulation

EN50131 grade	Grade 2
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Last updated on 22 April 2021 - 17:26

