

DD105

PIR / MW Motion sensor 12m, 7 Curtains DI

Twin Opposed Antenna

The DD 100 Series of detectors makes no compromises because it is a dual technology detector. It utilizes all the good features of our PIR's, including sealed Gliding Focus Mirrors and the latest 4D signal processing. Add to the 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 results are products with sharp detection and excellent false alarm immunity.

Distance of Motion (DoM) Processing

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

Benefiting 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

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

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

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



Standard Features

- PIR verified by microwave module
- "Step & Gliding Focus Multi Curtain" mirror optic
- Plug-in electronics
- Sealed optics
- ASIC with "4D" processing
- Distance of Motion microwave signal processing
- Selectable range with full undercrawl detection
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- Several European security approvals

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Specifications

General

Technology	Dual
Anti masking	No
Pet immune	No
Camera	No
Signal processing	4D
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.)	2410 MHz
Max. microwave output (at 1m)	0.005 $\mu\text{W}/\text{cm}^2$
Alarm memory	No
Alarm time	3 sec
Target speed range	0.2 to 3.0 m/s
Peak-to-peak ripple immunity	2V (at 12 VDC)

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

Power supply value	9 to 15 VDC (12V nominal)
Current consumption	11.5 mA

Physical

Physical dimensions	61 x 123 x 58 mm
Net weight	150 g
Colour	White
Mounting height	1.8 to 3 m

Environmental

Operating temperature	-10 to +50°C
Relative humidity	95% max. non-condensing
Environment	Indoor
IP rating	IP30

Standards & regulation

EN50131 grade	Grade 2
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Ordering Information

Part No.	Description
DD105	PIR / MW Motion sensor 12m, 7 Curtains DI
SB01	Wall/ceiling mount bracket ($\pm 45^\circ$ horizontal, 0° or -5° vertical)
ST400	Pry-off tamper kit

