



## Product Data Sheet

# DD100

10 m volumetric Dual motion sensor

### 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.



### 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
- Complies with EN50131-2-2
- Several European approvals

# DD100

## 10 m volumetric Dual motion sensor

### Specifications

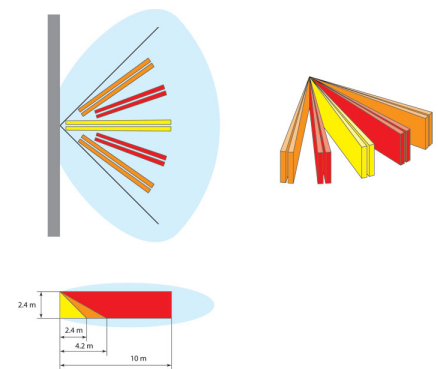
Detection range	10 m
Undercrawl protection	Yes
Detection range selection	10 m or 6 m
Coverage field of view	86° with 5 curtains
Coverage pattern selection	Undercrawl blinder
Mounting height	1.8 to 3.0 m
Power supply	9 to 15 VDC
Current consumption (nom.)	11.5 mA
Alarm relay (voltage free)	NC when energised
Tamper relay (voltage free)	NC when cover closed
Remote control lines	Walk test
Alarm memory	No
Microwave frequency (nom.)	2410 MHz
Dimensions (W x H x D)	61 x 123 x 58 mm
Ambient conditions	-10 to +50°C; max. 95% relative humidity
Pry-off tamper	ST400 (optional)
EN50131-2-2	Grade 2

### 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 its excellent detection.

### Accessory

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



### Ordering Information

Part No.	Description
DD100	Dual Detector with 5 curtains of 10 m NC Relay
DD100PI	10m volumetric PIR/ $\mu$ W motion sensor with pet immune up to 20 kg
SB01	Wall/ceiling mount bracket ( $\pm 45^\circ$ horizontal, $0^\circ$ or $-5^\circ$ vertical)

