

## DD 100 Series Dual Technology Detectors

- High performance PIR verified by a high quality microwave module
- DD 100 : 10 m coverage - 5 curtains  
DD 100PI : 10 m coverage - 5 curtains - pet immune up to 20 kg  
DD 105 : 12 m coverage - 7 curtains
- Plug-in electronics simplifies installation
- Precision sealed "Gliding Focus Curtain" mirrors
- Unique Twin Opposed Antennae
- Custom dual technology ASIC
- PIR : Uses the latest generation 4D signal processing
- Microwave : Advanced proprietary "DoM" signal processing
- Extremely low current draw
- Extremely low microwave power
- Dual loop/End-of-line feature (DD 105 only)



### → Twin Opposed Antennae

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

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

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

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.

*The DD 100 Series follows on the outstanding success of the DD 400. A next generation development has reduced the size, but not the performance and has made it ideal for residential and short range commercial applications.*

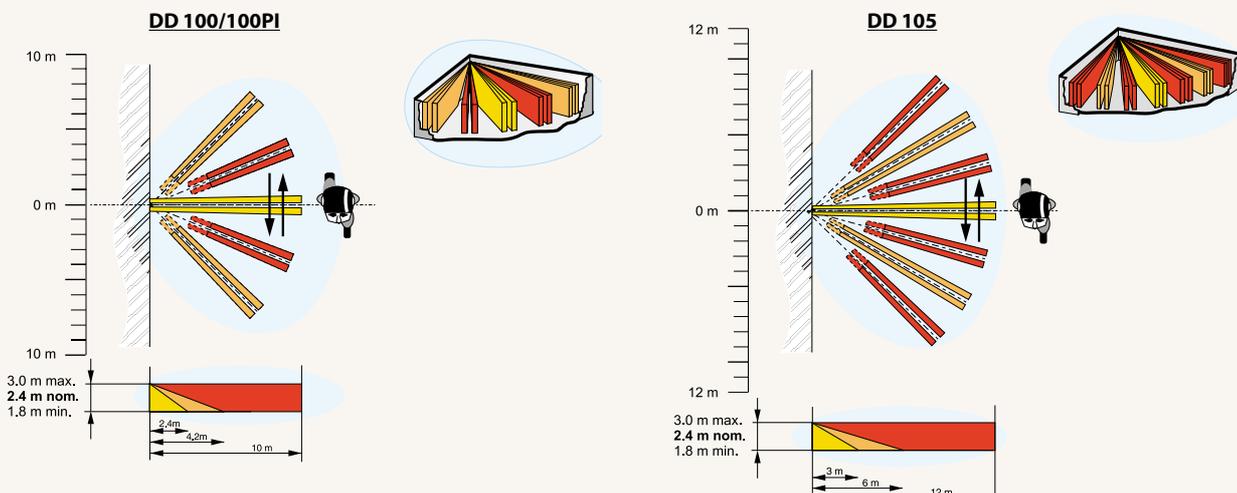
*Designed not only with good looks in mind, but also for excellent performance and ease of installation, the DD 100 series provides plug-in electronics for quicker trouble free installation.*

## DD 100 Series

### → Technical data

Supply voltage	9 - 15 V dc; Max. ripple 2 V peak to peak at 12 V dc
Current consumption	
Normal operation	11.5 mA
In alarm, LED on	15.0 mA max.
Outputs	
Alarm	NC contacts, rated 80 mA at 30 V dc
Tamper	NC contact, rated 100 mA at 30 V dc
Alarm time	3.0 sec.
Mounting height	1.8 to 3.0 metres
Target speed	Min. 0.2 - Max. 3.0 m/s
Microwave frequency	2450 MHz
Microwave power	0.005 $\mu$ W/cm <sup>2</sup> at 1.0 m
Coverage	
DD 100/100PI	5 curtains of 10 metres. Range can be reduced to 6 metres.
DD 105	7 curtains of 12 metres. Range can be reduced to 7 metres.
Environmental limits	-10° to +55° C; Max. 95 % humidity
Field of view	86°
Housing meets (with sealed cable entry)	IP30 - IK02
Dimensions	123 x 61 x 58 mm

### → Detection patterns



### → How to order

DD 100	Dual technology detector with 5 curtains of 10 m, NC relay
DD 100PI	As per DD 100, but pet immune up to 20 kg
DD 105	Dual technology detector with 7 curtains of 12 m, NC relay

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