

# Guardall DTX

## Superior Dual-Technology Sensor

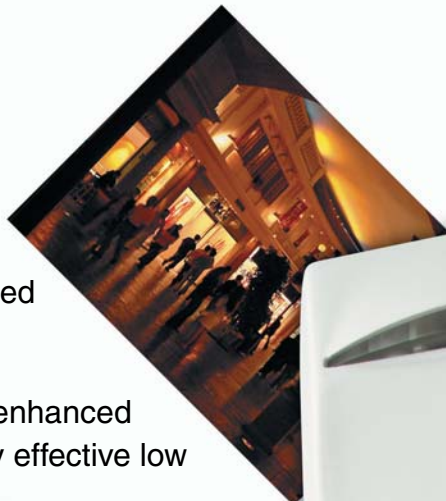
The DTX is the first of a new series of dual-technology detectors offering an advanced combination of microwave and PIR, supported by high quality mirror optics.

Our well-proven PIR technology has been enhanced by mirror optics and combined with a highly effective low power X-band microwave source. Together with Guardall's unique DT processing technology the DTX produces powerful Anti-masking and impressive detection with very low false alarm rates.

The feature-rich DTX includes PIR and microwave supervision ensuring continued coverage in the unlikely event of a technology failure.

The use of high-performance elements in DTX creates a superior detector outstanding in precise coverage of the detection zone. With its reliability, high performance and high false alarm immunity, the DTX can be used successfully in a wide range of applications.

*DTX is available in 12, 15 and 18 metre variants.*



**EN50131  
Grade 2  
Level 2  
compliant**

DTXXTD mirror optics



**Guardall**

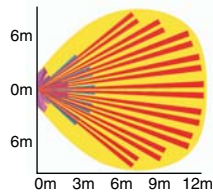
**DT Series**

# Guardall DTX

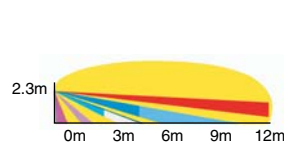
SUPPLIER/INSTALLER

## Coverage Diagrams

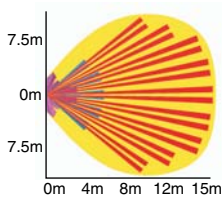
Volumetric Plan View 12m



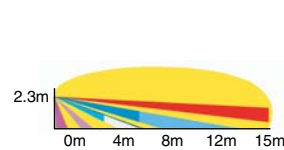
Volumetric Side View 12m



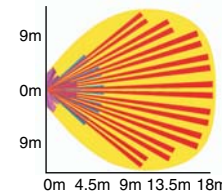
Volumetric Plan View 15m



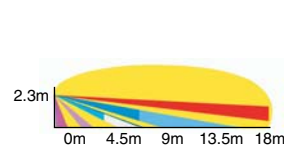
Volumetric Side View 15m



Volumetric Plan View 18m



Volumetric Side View 18m



## Specification

<b>Power</b>	<b>Voltage</b>	12V (9V – 16V dc)
	<b>Current</b>	19mA quiescent @12V dc
		25mA max @12V dc (the power feed must be fused at 5A or less)
<b>Max. ripple</b>	2V peak to peak @ 12V dc	
<b>Microwave power</b>	0.011µW/cm <sup>2</sup> @1m (average)	
<b>Frequency</b>	X-band	
<b>Alarm &amp; Aux. outputs</b>	Normally closed, voltage free, solid state relay Rated @ 30V dc, 50mA with max. 26Ω resistance	
<b>Tamper output</b>	Normally closed voltage free switch contacts Rated @24V dc, 50mA	
<b>Alarm period</b>	Approximately 3 seconds	
<b>Temperature range</b>	-10°C to 55°C (14°F to 130°F)	
<b>Microwave range adjustment</b>	50% to 100% of range via easily accessible potentiometer (12, 15 and 18m volumetric)	
<b>PIR coverage adjustment</b>	+3° to -11° vertically. Horizontal adjustment +/-5° when corner mounted	
<b>Walk test LEDs</b>	Red	Unit Alarm
	Green	Microwave channel
	Yellow	PIR channel
<b>Remote LED enable</b>	Control of LED indication using test line	
<b>Anti-masking</b>	Solid state output to indicate mask attempt	
<b>Latching</b>	Standard (L-type) Latching	
<b>Microwave / PIR trouble</b>	Indicated on Aux output if selected	
<b>Packed weight</b>	242g approximately	
<b>Dimensions (H x W x D)</b>	152 x 85 x 80mm	

## Features and Benefits

### Feature

- 18m, 15m and 12m variants
- 3 LEDs
- Hinged cover
- DIL switches
- 3 built in end of line resistors
- Sealed optics
- Sneak zone
- Adjustable mirror optics
- Anti-mask for PIR and microwave
- X Band microwave
- Microwave range control
- Microwave/PIR supervision
- Microwave day disable
- Profiled temperature compensation
- Sensitivity selection
- Automatic self test
- Solid state relays
- Test input
- Control input
- EN50131 Grade 2 Level 2 compliant

### Benefit

- Covers most volumetric protection applications
- Simpler walk testing and identification of area of coverage
- Quicker and convenient installation/replacement of the unit
- Easy selection of features during installation
- Quicker installations and 3 status indications using 1 zone (alarm/tamper/anti-mask)
- Reduced risk of insect ingress and false alarms
- Effective detection below the sensor
- Able to target a more defined area of coverage
- Suitable for high security applications
- Controlled detection for lower false alarm rates
- Adjustable detection area giving reduced false alarms
- Signals fault but continues operation in the event of microwave/PIR failure
- No microwave emissions during unset/day
- Maintains accurate detection over its entire operating temperature range
- Higher security and reduced false alarms risk
- Identification of problems by constantly monitoring performance
- Cannot be defeated by external magnets
- Remote Self Test and LED control from the panel
- Sets/Unsets detector enabling microwave day operation, LED selection and alarm latching
- Can be used in all installations to this standard

## Ordering Information

<b>W76086</b>	Guardall DTX 12m
<b>W76084</b>	Guardall DTX 15m
<b>W76082</b>	Guardall DTX 18m

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