

DTX

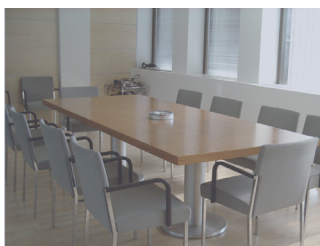
Dual-Technology Sensor

DT Series



- 18m TS Grade 3 Detector
- 15m TS Grade 2 Detector
- Powerful Anti-Mask
- Anti-Mask Sensitivity selection
- Anti-Stealth Technology™
- Enhanced DT Processing
- High Quality Mirror Optics
- Outstanding False Alarm Immunity

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.



Guardall

A UTC Fire & Security Company

It's in our nature to protect
Secure Solutions

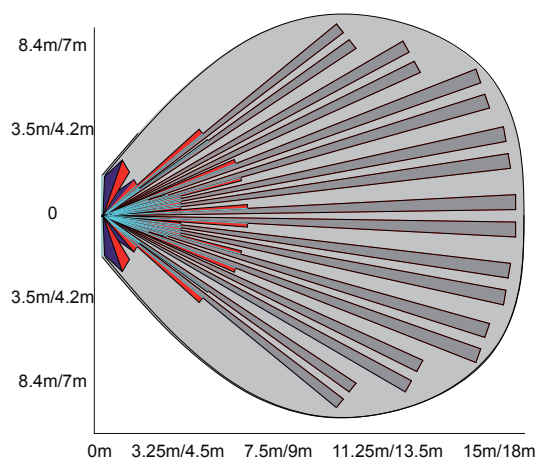
DTX

Dual Technology Sensor

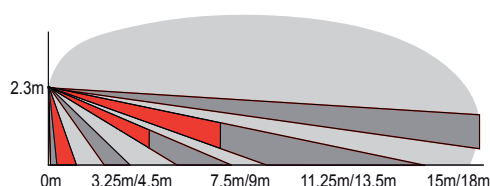
Supplier / Installer

Coverage Diagrams

Volumetric Plan View 15m/18m



Volumetric Side View 15m/18m



Specification

Power	Voltage	12 V (9V - 16V dc)
	Current	19 mA quiescent @12V dc 25 mA max @12V dc (the power feed must be fused at 5A or less)
	Max. ripple	2V peak to peak @ 12V dc
Microwave power		0.011µW/cm2@1m (average)
Frequency		X band
Alarm & Aux output		Normally closed, voltage free, solid state relay. Rated @ 30V dc, 50mA with max. 26Ω resistance
Tamper output		Normally closed voltage free switch contacts. Rated @24V dc, 50mA
Alarm period		Approximately 3 seconds
Temperature range		-10°C to 55°C (14°F to 130 °F)
Microwave range adjustment		50% to 100% of range via easily accessible adjustment potentiometer (12, 15 & 18m volumetric)
PIR coverage adjustment		+3° to -11° vertically. Horizontal adjustment +/-5° when corner mounted
Walk test LED's		Red Unit Alarm Green Microwave channel Yellow PIR channel
Remote LED enable		Control of LED indication using test line
Anti-masking		Solid state output to indicate mask attempt
Latching		Standard (L-type) latching
Microwave / PIR trouble		Indicated on Aux output if selected
Packed weight		242g approximately
Dimensions (H x W x D)		152 x 85 x 80 mm

Features and Benefits

Feature	Benefit
Adjustment mirror optics	Able to target a more defined area of coverage.
Sealed optics	Reduced risk of insect ingress and false alarms.
X Band microwave	Controlled detection for lower false alarm rates
Sneak zone	Effective detection below the sensor.
Anti-mask for PIR and microwave	Suitable for high security applications.
Sensitivity selection	Higher security and reduced false alarms risk.
Profiled temperature compensation	Maintains accurate detection over its entire operating temperature range.
Microwave range control	Adjustable detection area giving reduced false alarms.
3 built in end of line resistors	Quicker installations and 3 status indications using 1 zone (alarm/tamper/anti-mask).
Hinged cover	Quicker and convenient installation/replacement of the unit.
18m and 15m variants	Covers most volumetric protection applications.
Microwave/PIR supervision	Signals fault but continues operation in the event of microwave/PIR failure.
Microwave day disable	No microwave emissions during unset/day.
Automatic self test	Identification of problems by constantly monitoring performance.
Control input	Sets/Unsets detector enabling microwave day operation, LED selection and alarm latching.
TS50131 Grade 3/2 Class II compliant	Can be used in all installations to this standard.
Solid state relays	Cannot be defeated by external magnets.
Test input	Remote Self Test and LED control from the panel.
Three LED's	Simpler walk testing and identification of area of coverage.
DIL switches	Easy selection of features during installation.

Ordering Information

W76084	Guardall DTX 15m
W76082	Guardall DTX 18m
W72321	Guardall LPB2 Low Profile Bracket
W72977	Guardall CMB1 Ceiling Mount Bracket

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