Guardall DTSx+

Advanced Dual-Technology Sensor

DTSx+ incorporates a highly effective X-band microwave together with well-proven PIR technology. This pairing produces a superb dual technology sensor that greatly improves false alarm immunity and is compliant with TS50131-2-4: 2004 Grade 3, Class II.

Featuring an advanced microwave anti-mask system, the sensor detects any attempt to disable operation of one or both alarm channels. Anti-stealth is a highly intelligent mode that precisely analyses microwave and PIR activity in a room and significantly improves detection in extreme conditions. This development also combats intrusion attempts using infrared screening materials. A sneak mirror is used to improve catch performance below the sensor satisfying the TS Grade 3 standard. Supervision circuitry provides continuous monitoring and converts to a single technology, pulse count PIR or microwave only unit, in the unlikely event of failure in either the microwave or the PIR.

It has been designed to be simple to install with three LEDs within the sensor to facilitate efficient analysis of the technologies. Incorporating unique signature recognition for precise intruder detection, DTSx+ is elevated to the next level for security solutions.

TS50131
Grade 3
Class II
compliant

Guardall

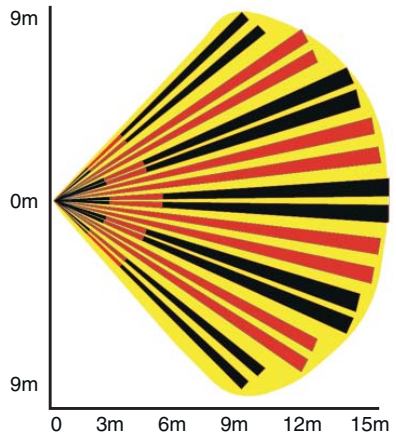
DT Series

Guardall DTSx+

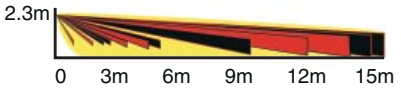
SUPPLIER/INSTALLER

Coverage Diagrams

Volumetric Plan View 15m



Volumetric Side View 15m



Specification

Power	**Voltage**	12 V (9V – 16V dc)
	Current	14mA quiescent @12V dc 30mA max @12V dc (All LED's ON) (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 output and Aux/Fault		Normally closed, voltage free, solid state relay Rated @ 30V dc, 50mA with 10 Ω series protection resistor
Tamper output		Normally closed voltage free switch contacts.
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 potentiometer
PIR Coverage Adjustment		+2° to -12° vertically, ±5° adjustment horizontally when corner mounted
Walk Test LEDs		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
Weight		154g
Dimensions (H x W x D)		131 x 65 x 45mm

Features and Benefits

Feature	Benefit
– **Three LEDs**	Easier to check status of each technology as well as unit alarm
– **Test input**	LED can be switched from the panel
– **Adjustable optics**	Helps optimise the detection area
– **Anti stealth**	Improved detection in harsh enviroments
– **Sealed optics**	Lower risk of unwanted alarms from insects
– **Microwave range control**	Precise adjustment of microwave detection area
– **Profiled temperature compensation**	Maintains accurate detection over it's entire operating temperature range
– **Fluorescent light rejection**	No unwanted alarms from fluorescent lights
– **Sneak mirror**	Effective detection below the sensor to TS50131 Grade 3 standard
– **Solid state relay**	Cannot be defeated by external magnet
– **Low voltage detection**	Indication of problem before you get false alarms
– **DIL switches**	Easy selection of features during installation
– **Anti-mask for PIR and Microwave**	Suitable for high security applications
– **X Band Microwave**	Better controlled detection
– **Microwave/PIR supervision**	Continuous operation in the event of microwave/PIR failure
– **Microwave day disable**	No Microwave emissions during unset/day
– **Sensitivity selection**	Higher security and reduced false alarms risk
– **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 Class II compliant**	Can be used in all installations to this standard

Ordering Information

W76234 Guardall DTSx+ 15m

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Guardall Data Sheet DTSx+ (English Version) 7/06

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