

V12 AM

Dual Hex Technology

V Series



- 15m EN Grade 3 PIR detector
- Corridor (20m) & Curtain (10m) lens options available
- Active IR anti-masking
- Revolutionary patented 12 element detector & “Dual-Hex” verification technology
- High false alarm immunity
- Microprocessor-based electronics

The Guardall V12AM is a high security 15m passive infrared detector with anti-masking. The new ‘Dual-Hex’ technology takes the Guardall V12AM above and beyond quad systems. The main benefits of the unit, is it’s immunity to false alarms. An exact match is required on both amplifier channels with ‘spikes’ on either channel (e.g. internal noise) eradicated as a potential alarm through the verification process.



Solid state relays mean that the unit is extremely reliable with no noise or mechanical moving parts and the detector cannot be compromised by external magnets. Coupled with market leading Anti-Mask technology, the Guardall V12AM leaves other PIRs standing when it comes to the peace of mind of the end-user.

The main installer benefit is the V12AM’s unsurpassed resistance to false alarms through technology specifically designed to meet this aim. The V12AM is genuinely installer focused, and the product incorporates design and features from feedback Guardall received from installation companies. This means the Guardall V12AM has been designed to make installation simple and trouble-free.



 **Guardall**

A UTC Fire & Security Company

It's in our nature to protect
Secure Solutions

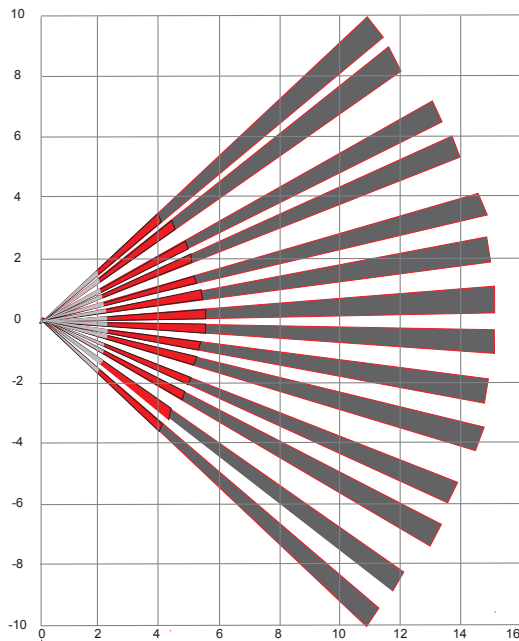
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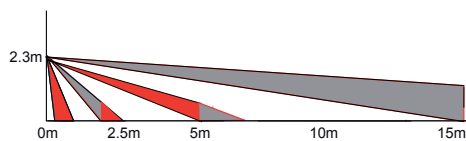
Supplier / Installer

Coverage Diagrams

Volumetric Plan View 15m



Volumetric Side View 15m



Specification

Power	Voltage	12 V (9V - 16V dc)
	Current	17 mA quiescent @12V dc 20 mA max @12V dc
	Max. ripple	2V peak to peak @ 12V dc
Alarm output	Normally closed voltage free reed relay contacts. Rated at 30V, 50mA dc with 10Ω series protection resistor.	
Tamper output	Normally closed voltage free switch contact. Rated at 24V, 50mA dc	
Test output	Normally low or open circuit, connect to detector's positive supply to activate (High). Must have common ground with detector	
Auxilliary output	Normally closed (NC), voltage free solid state relay. Rated at 30 V dc, 50 mA with a max. 10Ω on resistance.	
Alarm period	Approximately 3 seconds	
Temperature range	-10°C to 55°C (14°F to 130 °F)	
Temperature Compensation	Increases gain only when room temperature close to body temperature	
Coverage adjustment	+0° to -14° vertically +5° horizontally when corner mounted	
LED Indication	Internal switch or test input to enable	
Packed weight	155g approximately	
Dimensions (H x W x D)	118 x 81 x 52 mm	

Features and Benefits

Feature	Benefit
Periodic calibration	Approximately once every minute the mask circuitry checks for the effects of dust build up, temperature and ageing and compensates accordingly.
Highest quality active IR Anti-Mask in the industry	Detect metal, paper, sprays, lacquers and paint obstructions.
Sealed optics	Insect and dust tight beyond the requirements of IP4X.
Sneak lens	Effective detection below the sensor.
Various pulse count options	Can be tailored to specific application.
Built in switchable end-of-line resistors	Easy interaction with Guardall control panels.
Temperature compensation	Preventing over sensitivity at high temperatures.
Solid state relays	Improve reliability, eliminate noise and cannot be compromised by magnets.
DIL switches	Easy selection of features during installation.
Anti-mask	Suitable for high security applications.
Sensitivity selection	Higher security and reduced false alarms risk.
Automatic self test	Identifi cation of problems by constantly monitoring performance.
Robust, quality enclosure	Resists the strictest shock tests without false alarming or damaging functionality.
Low supply monitor	Gives a warning of low supply without giving an alarm condition.
TS50131 Grade 3 Class II compliant (when in HS mode (SW7 ON) and high AM sensitivity (SW8 ON))	Can be used in all installations to this standard.

Ordering Information

W73526 Guardall V12AM 15m
 W73767 Corridor and curtain lens pack(1 of each)
 W72321 Guardall LPB2 Low Profile Wall Bracket
 W72977 Guardall CMB1 Ceiling Mount Bracket

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