

# PQ15 AM

PIR Sensor

# PQ Series



- Active IR Anti-Mask
- TS Grade 3, Class II
- Quad Detector
- 15m Volumetric Coverage
- Selectable End of Line Resistances
- NEW Shared Housing
- Varifocal Lens Design
- Enhanced PIR Processing
- Adjustment-Free Optics

Guardall's new innovative top of the range PIR features 'through-the-lens' active IR anti-mask for higher security applications requiring compliance to TS50131 grade 3 class II. It is a premium PIR detector and is ideal in applications where performance and reliability are paramount.



The Guardall PQ15AM's design features make installation fast and straightforward with adjustment free optics (can be mounted between 2.1 and 2.5m and provide 15m volumetric coverage) and selectable end of line resistances. It has separate mask/fault output and solid state outputs which are unaffected by magnets. These features all combine to give great performance, superior detection in a stylish, robust unit for all applications.

With full active IR anti-mask and a sneak mirror for superior close in protection PQ15AM meets the standards of TS 50131-2-2:2004, grade 3, class II. The newly designed light pipes give excellent visibility of the alarm LED from all angles and make walk testing very quick and easy.



 **Guardall**

A UTC Fire & Security Company

*It's in our nature to protect*  
**Secure Solutions**

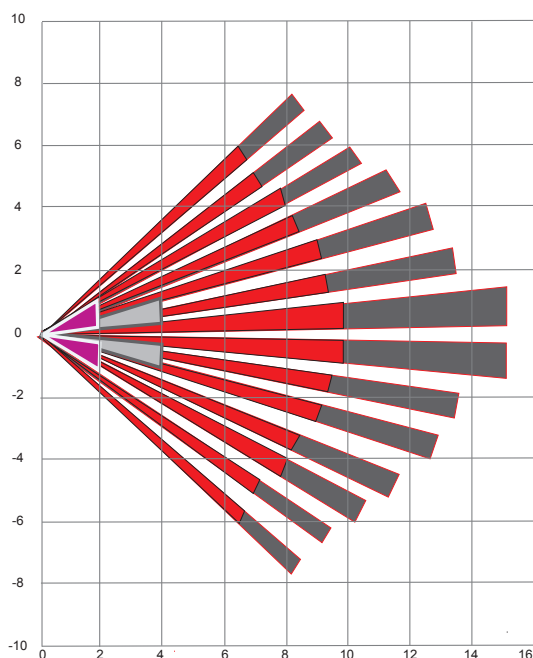
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PIR Sensor

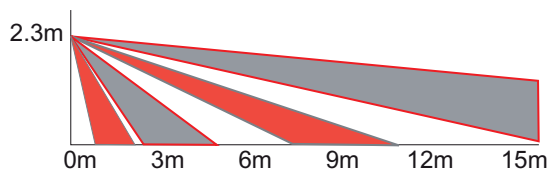
Supplier / Installer

## Coverage Diagrams

Volumetric Plan View 15m



Volumetric Side View 15m



## Specification

<b>Power</b>	<b>Voltage</b>	12 V (9V - 16V dc)
	<b>Current</b>	12 mA quiescent @12V dc 17 mA max @12V dc (All LED's ON)
	<b>Max. ripple</b>	2V peak to peak @ 12V dc
<b>Alarm and Aux/Fault output</b>	Normally closed, voltage free, solid state relay. Rated @ 30V, 50mA	
<b>Tamper output</b>	Normally closed voltage free switch contacts	
<b>Alarm period</b>	Approximately 3 seconds	
<b>Temperature range</b>	-10°C to 55°C (14°F to 130 °F)	
<b>PIR coverage adjustment</b>	±5° adjustment horizontally when corner mounted	
<b>Walk test LED</b>	Red Unit Alarm	
<b>Remote LED enable</b>	Control of LED indication using Test line	
<b>Anti-masking</b>	Indicated on Aux output and LED's if selected	
<b>Latching</b>	Standard (L-type) Latching	
<b>PIR trouble</b>	Indicated on Aux output and LED's if selected	
<b>Packed weight</b>	115g approximately	
<b>Dimensions (H x W x D)</b>	110 x 66 x 42 mm	

## Features and Benefits

Feature	Benefit
<b>Adjustment free optics</b>	Helps minimise the installation and set up time.
<b>Sealed optics</b>	Lower risk of unwanted alarms from insects.
<b>Sneak mirror</b>	Effective detection below the sensor to TS50131 Grade 3 standard.
<b>Active IR anti-mask</b>	Suitable for high security applications.
<b>Sensitivity selection</b>	Higher security and reduced false alarms risk.
<b>Profiled temperature compensation</b>	Stable detection through a range of operating temperatures.
<b>Low voltage detection</b>	Indication of problem before you get false alarms.
<b>Multiple end of line resistor values</b>	Easier and more effective installation.
<b>Automatic self test</b>	Identification of problems by constantly monitoring performance.
<b>TS50131 Grade 3 Class II compliant</b>	Can be used in all installations to this standard.
<b>Solid state relays</b>	Cannot be defeated by external magnet.
<b>Control Input</b>	Enables detector alarm memory, anti-mask and LED selection.
<b>Test input</b>	LED can be switched from the panel.
<b>DIL switches</b>	Easy selection of features during installation.

## Ordering Information

W76558 Guardall PQ15 AM 15m  
 W72321 Guardall LPB2 Low Profile Wall Bracket  
 W72977 Guardall CMB1 Ceiling Mount Bracket

Guardall Ltd,  
 Queen Anne Drive, Lochend Industrial Estate,  
 Newbridge, Edinburgh, EH28 8PL, UK  
 Tel +44.131.333.2900 Fax +44.131.333.4919  
[www.guardall.com](http://www.guardall.com)