

Peace of mind

performance line



PQ15/DT15-series
Wall mount sensor

Peace of mind



The Performance Guardall sensor range of motion sensors is intended for use in residential and light commercial applications.

performance line

The **PerformanceLine** series is the line of legacy Guardall motion sensors (PQ15 and DT15-series) and both series are intended for the protection of residential and commercial premises.

When quality, reliability, detection performance and false alarm immunity are paramount to you and your customers, the microcontroller-based PQ15 provides all the elements.

DT15-series 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.

Besides both entry models PQ15 and DT15, there are three variants to choose in case you require an anti-mask solution.





High-end solutions for residential and commercial applications

The PerformanceLine Series has for the moment:

- A range of PIR motion sensors PQ15-series,
- A range of PIR/MW motion sensors DT15-series.

The PQ15-series design features make installation fast and straightforward with adjustment-free optics allowing mounting between 2.1 and 2.5m height and providing 15m of volumetric coverage.

The anti-mask variant PQ15 AM – using active infra red technology – has even in addition selectable end of line resistances. Four detection modes (including pulse count) are available to suit most environments, and are DIL switch selectable for simplicity.

DT15-series 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. 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. This series offers two variants of anti-masking using active infra red technology or microwave technology.

Accessories

A wall and ceiling mount bracket is available providing flexibility to install and aim the detector where required.

PQ15-series

Standard features

- Quad pyro detector
- 15m volumetric coverage
- Enhanced PIR processing
- Redesigned housing shared across platform range
- Varifocal lens design
- Adjustment-free optics
- PQ15 AM: selectable end of line resistances / active IR anti-masking

DT15-series

Standard features

- Quad pyro detector and X-band microwave.
- 15m volumetric coverage
- Enhanced DT processing
- Redesigned housing shared across platform range
- Anti-stealth technology™
- Varifocal lens design
- Adjustment-free optics
- DT15+ and DT15 AM: selectable end of line resistances
- DT15+: microwave anti-mask
- DT15 AM: active IR anti-masking



Specifications

PIR technology			
		PQ15	PQ15AM
Power	Voltage	12VDC (9VDC - 16VDC)	
	Current	9mA quiescent @ 12VDC 11mA max @ 12VDC	12mA quiescent @ 12VDC 17mA max @ 12VDC (LED on)
	Max. ripple	2V peak to peak @ 12VDC	
Microwave power	-		
Frequency	-		
Alarm output	Normally closed, voltage free, solid state relay rated @ 30VDC, 50mA		
Tamper output	Normally closed voltage free switch contacts rated @ 24VDC, 50mA	Normally closed voltage free switch contacts	
Alarm period	Approximately 3 seconds		
Temperature range	-10°C to 55°C		
Microwave range adjustment	-		
PIR coverage adjustment	± 5° adjustment horizontally when corner mounted		
Walk test LED's	Red... Alarm		
Remote LED enable	Control of LED indication using test line		
Anti-masking	Indication	-	Indicated on Aux output and LED if selected
	Technology	-	Active Infrared
Latching	-	Standard (L-type) latching	
Microwave / PIR trouble	-	Indicated on Aux output and LED if selected	
Packed weight	approx. 110g	approx. 115g	
Dimensions (H x W x D)	110 x 66 x 42mm		



Specifications

Dual technology (PIR and microwave)				
		DT15	DT15+	DT15AM
Power	Voltage	12VDC (9VDC - 16VDC)		
	Current	13mA quiescent @ 12VDC 18mA max @ 12VDC (all LED's ON)	13mA quiescent @ 12VDC 21mA max @ 12VDC (all LED's ON)	15mA quiescent @ 12VDC 23mA max @ 12VDC (all LED's ON)
	Max. ripple	2V peak to peak @ 12VDC		
Microwave power	0.011uw/cm ² @ 1m (average)			
Frequency	10.587 GHz (X-band)			
Alarm output	Normally closed, voltage free, solid state relay rated @ 30VDC, 50mA			
Tamper output	Normally closed voltage free switch contacts			
Alarm period	Approximately 3 seconds			
Temperature range	-10°C to 55°C			
Microwave range adjustment	50% to 100% of range via easily accessible potentiometer			
PIR coverage adjustment	± 5° adjustment horizontally when corner mounted			
Walk test LED's	Red... Alarm – Green... Microwave channel – Yellow... PIR channel			
Remote LED enable	Control of LED indication using test line			
Anti-masking	Indication	-	Indicated on Aux output and LED's if selected	
	Technology	-	Microwave	Active Infrared
Latching	-	Standard (L-type) latching		
Microwave / PIR trouble	Indicated on LED's if selected	Indicated on Aux output and LED's if selected		
Packed weight	approx. 135g			
Dimensions (H x W x D)	110 x 66 x 42mm			

Ordering information

Part No.	Description
W76555	PQ15 15m
W76558	PQ15 AM 15m
W76561	DT15 15m
W76570	DT15 AM 15m

Part No.	Description
W76567	DT15+ 15m
W72321	LPB2 low profile wall bracket
W72977	CMB1 ceiling mount bracket