

Peace of mind

design line



6530CM
Ceiling mount detector

performance line



PQ15/DT15-series
Wall mount sensor



Peace of mind

UTC Fire & Security's group has two series of volumetric motion sensors intended for use in residential and light commercial and are marketed under the Guardall brand:

- DesignLine series
- PerformanceLine series

design line

The DesignLine series is a range of volumetric motion sensors using PIR Technology or Dual Technology (PIR and microwave) and is suitable for residential and light commercial environments.

This series builds value by meeting customers' security needs while respecting budget constraints. This range is quick to install and comes with a stylish housing. In launching our new range of DesignLine motion sensors, we have listened and are responding to end users' needs. These motion sensors deliver easy solutions for installers providing flexibility in installing height.





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.





Stylish solutions for residential and light commercial applications

The DesignLine series has for the moment:

- A range of Fresnel PIR motion sensors for wall or ceiling mounting,
- 1 dual technology motion sensor for mounting to the ceiling (6630CM)

Both ranges are quick to install and come with a stylish housing. They are both available across the EMEA region and are the ideal security solution for residential and light commercial applications.

The range with the Fresnel PIR technology provides detection for a variety of ranges, including up to 360° of coverage for ceiling mount applications and more recent a variant with anti-masking functionality using active infrared technology. It even has a variant with smart pet immunity up to 35kg, making this series

all the more attractive. They are also equipped with a standard EOL resistor and providing flexibility in installing height. The AM variant has an additional built-in EOL resistor value for use in combination with an EN Grade III control panel of the Guardall range. It is EN50131 certified and has several other security approvals.

The dual technology (PIR/MW) motion sensor, called 6630CM, provides 360° of detection. It can be installed at various heights up to 3.6m covering a detection diameter of 9.3m.

Accessories for Fresnel PIR's

A wall and ceiling mount bracket is available providing flexibility to install and aim the detector where required. In addition the standard built-in lens can be taken out and replaced by a long range lens or a curtain lens.

Fresnel PIR series

Standard features

- Passive Infra Red volumetric motion sensor
- Coverage 12>15m + ceiling mount + variant with AM functionality
- Digital signal processing
- Unique stylish design
- Quick to install
- Built-in EOL resistor of 3k3 Ω
- AM variant with an additional EOL resistor of 4K1 Ω
- EN50131-2-2 certified Grade II & Grade III variants available
- Holds several European security approvals

Dual technology motion sensor

Standard features

- Dual Technology (PIR and Microwave)
- 360° coverage
- Unique stylish design
- Quick to install



65XX-series
Wall mount sensor

6530CM/ 6630CM
Ceiling mount detector



Specifications

PIR technology						Dual technology (PIR and microwave)
	6540	6540PI	6550	6550AM	6530CM	6630CM
Detection range coverage	-				diameter of 9.3m / 30ft at 3.6m / 12ft mounting height	diameter of 9.3m / 30ft at 3.6m / 12ft mounting height
Detection range	12m / 40ft		15m / 50ft		(UL/CUL approved) coverage diameter of 26ft at 12ft mounting height	-
Optics	Fresnel lens	Optics holographic Fresnel lens	Fresnel lens			Fresnel lens
Frequency	-					24GHz (K-band)
Pet immunity	-	Pulse count 1: up to 20kg/44lbs Pulse count 2: up to 35kg/77lbs	-			-
Mounting height	1.5 to 3.1m / 4.1 to 10ft	1.5 to 2.3m / 4.1 to 7.5ft	1.5 to 3.1m / 4.1 to 10ft		2.4 to 3.6m / 8 to 12ft	max. 3.6m / 12ft
Anti-masking technology	-			active infrared	-	-
Power supply	9 to 15VDC					9 to 16VDC
Current consumption	(nom.) 8.7mA			(nom.) 21.5 mA	(nom.) 8.7mA	max. 28mA @12V
Alarm relay	<24VDC, 50mA, NC					
Tamper relay	<24VDC, 50mA, NC					
Trouble/fault	-			<24VDC, 50mA, NC	-	-
Target speed range	30cm/s to 3m/s / 1ft/s to 10ft/s					30cm/s to 3m/s / 1ft/s to 10ft/s
Dimensions	(HxWxD) 123x66x42mm				(diameter x H) 116x33mm	(diameter x H) 116x33mm
Weight	94g			97g	98g	125g
Operating temperature	-10 to +55°C / 14°F to 130°F					-10 to +55°C / 14°F to 130°F
Relative humidity	max. 95%					max. 95%

Ordering information

Part No.	Description
6540	12m/40ft volumetric PIR motion sensor
6540PI	12m/40ft volumetric PIR motion sensor pet immunity
6550	15m/50ft volumetric PIR motion sensor
6550AM	15m/50ft volumetric PIR motion sensor, AM functionality
6530CM	360° volumetric PIR motion sensor
6630CM	360° volumetric dual technology (PIR/MW) motion sensor
6545-BP	Swivel-mount bracket for 65XX series (10-pack)
6545-LR	Long range lens for 6540 (10-pack), 26m/86ft
6545-CL	Curtain lens for 6540 (10-pack), 12m/40ft, 6°



performance line

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



PQ15/DT15-series
Wall mount sensor

Specifications

PIR technology			Dual technology (PIR and microwave)			
		PQ15	PQ15 AM	DT15	DT15+	DT15 AM
Power	Voltage	12Vdc (9Vdc - 16Vdc)		12Vdc (9Vdc - 16Vdc)		
	Current	9mA quiescent @ 12Vdc 11mA max @ 12Vdc	12mA quiescent @ 12Vdc 17mA max @ 12Vdc (LED on)	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		2V peak to peak @ 12Vdc		
Microwave power	-		0.011uw/cm ² @ 1m (average)			
Frequency	-		X-band			
Alarm output	Normally closed, voltage free, solid state relay Rated @ 30Vdc, 50mA		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		Normally closed voltage free switch contacts		
Alarm period	Approximately 3 seconds		Approximately 3 seconds			
Temperature range	-10°C to 55°C / 14°F to 130°F		-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	± 5° adjustment horizontally when corner mounted		± 5° adjustment horizontally when corner mounted			
Walk test LED's	Red...	Alarm		Red... Alarm Green... Microwave channel Yellow... PIR channel		
Remote LED enable	Control of LED indication using test line		Control of LED indication using test line			
Anti-masking	Indication	-	Indicated on Aux output and LED if selected	-	Indicated on Aux output and LED's if selected	
	Technology	-	Active Infrared	-	Microwave	Active Infrared
Latching	-	Standard (L-type) latching		-	Standard (L-type) latching	
Microwave / PIR trouble	-	Indicated on Aux output and LED if selected		Indicated on LED's if selected	Indicated on Aux output and LED's if selected	
Packed weight	approx. 110g		approx. 115g	approx. 135g		
Dimensions (H x W x D)	110 x 66 x 42mm		110 x 66 x 42mm			

Ordering information

Part No.	Description
W76555	PQ15 15m
W76558	PQ15 AM 15m
W76561	DT15 15m
W76570	DT15 AM 15m
W76567	DT15+ 15m
W72321	LPB2 low profile wall bracket
W72977	CMB1 ceiling mount bracket



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