designline

performanceline



Guardall *DesignLine* & *PerformanceLine* detector series 2015

Peace of mind

Peace of mind

The Guardall sensor range comprises two series of motion sensors intended for use in residential and light commercial applications:

- DesignLine series
- PerformanceLine series







performanceline

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 antimask solution.



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Stylish solutions for residential and light commercial applications

The DesignLine series consists out of two product lines:

- A range of Fresnel PIR's
- A range of Dual Technology motion sensors

Both ranges are quick to install, come with a stylish housing and offer solutions for wall or ceiling mounting. Both product lines are available across the EMEA region and are the ideal security solution for residential and light commercial applications. These product lines provide detection for a variety of ranges, including up to 360° of coverage for ceiling mount applications and variants with anti-masking functionality using active infrared technology. It even has variants with smart pet immunity up to 35 kg, making this series all the more attractive. The non-AM variants of the Fresnel PIR's are equipped with a standard 3k3 EOL resistor and providing flexibility in installing height. The PIR/AM and all variants using dual technology have an additional built-in EOL resistor value for use in combination with control panels of the Guardall range. All products of the DesignLine Series hold the European EN50131 standard and have on top several other security approvals.

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 of the wall mount PIR's can be taken out and replaced by a long range lens or a curtain lens.

Accessories

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 of the wall mount PIR's can be taken out and replaced by a long range lens or a curtain lens.

Feature differences

Frensel PIR (65XX-series)

- Passive Infra Red Technology
- Built-in EOL resistor of 3.3kΩ
- AM variant with an additional EOL resistor of $4.1 k\Omega$
- EN50131-2-2 certified Grade II & Grade III variants available

Dual technology (66XX-series)

- Dual technology (PIR and K-band Microwave)
- Several Built-in EOL resistor values for easy
- combination with NX and Guardall control panels EN50131-2-4 certified Grade II & Grade III
- EN50131-2-4 certified Grade II & Grade III variants available

Common features

- Coverage 12>15m + ceiling mount + variant with AM functionality
- Digital signal processing
- Unique stylish design
- Quick to install
- Holds several European security approvals

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Specifications PIR technology					0
	6540	6540PI	6550	6550AM	6530CM
Detection range	12m		15m		diameter of 9.3m at 3.6m mounting height
Optics	Fresnel lens	Optics holographic Fresnel lens	Fresnellens		
Petimmunity	-	Pulse count 1: up to 20kg Pulse count 2: up to 35kg	-		
Mounting height	1.5 to 3.1m	1.5 to 2.3m	1.5 to 3.1 m		2.4 to 3.6m
Anti-masking technology	-			active infrared	-
Power supply	9 to 15VDC				
Current consumption	(nom.) 8.7mA			(nom.) 21.5 mA	(nom.) 8.7mA
Alarm relay	<24VDC, 50mA, NC				
Tamper relay	<24VDC, 50mA, NC				
Trouble/fault	-			<24VDC, 50mA, NC	-
Target speed range	30cm/s to 3m/s				
Dimensions	(HxWxD)123x66x42mm				(diameter x H) 116x33mm
Weight	94g			97g	98g
Operating temperature	-10 to +55°C				
Relative humidity	max. 95%				



Dual technology (PIR & microwave)				
	6640	6640PI	6650AM	6630CM-N
Detection range	12m		15m	diameter of 9.3m at 3.6m mounting height
Optics	Fresnellens	Optics holographic Fresnel lens	Fresnel lens	
Frequency	24GHz (K-band)			
Petimmunity	-	Pulse count 1: up to 20kg Pulse count 2: up to 35kg	-	
Mounting height	1.5 to 3.1 m	2.3m	1.5 to 3.1m	2.4 to 3.6m
Anti-masking technology	-		active infrared	-
Power supply	9 to 15 VDC			
Current consumption	(nom.) 21mA		(nom.) 36.3mA	(nom.) 21mA
Alarm relay	<24VDC, 50mA, NC			
Tamper relay	<24VDC, 50mA, NC			
Trouble/fault	-		<24VDC, 50mA, NC	-
Target speed range	30cm/s to 3m/s			
Dimensions	(HxWxD)123x66x42mm			(diameter x H) 116x33mm
Weight	112g	112g		110g
Operating temperature	-10 to +55°C			
Relative humidity	max. 95%			

Ordering information

Part No.	Description
6540	12m Fresnel PIR motion sensor
6540PI	12m Fresnel PIR motion sensor with Pet Immunity functionality
6550	15m Fresnel PIR motion sensor
6550AM	15m Fresnel PIR motion sensor with AM functionality
6530CM	360° Fresnel PIR motion sensor PIR
6640	12m Dual Technology motion sensor

Part No.	Description	
6640PI	12m Dual Technology motion sensor with Pet Immunity functionality	
6650AM	15m Dual Technology motion sensor with AM functionality	
6630CM-N	360° Dual Technology motion sensor	
6545-BP	Swivel-mount bracket for 65XX and 66XX series (10-pack)	
6545-LR	Long range lens for 6540 (10-pack), 26m	
6545-CL	Curtain lens for 6540 (10-pack), 12m, 6°	





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

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Specificatio	ns			
PIR technolog	у			
		P015	P015AM	
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 powe	r	-		
Frequency		-		
Alarmoutput		Normally closed, voltage free, solid state relay rated @ 30VDC, 50mA		
Tamperoutput		Normally closed voltage free switch contacts rated @ 24VDC, 50mA	Normally closed voltage free switch contacts	
Alarm period		Approximately 3 seconds		
Temperature ran	ige	-10°Cto 55°C/14°Fto 130°F		
Microwave range	adjustment	-		
PIR coverage adj	ustment	± 5° adjustment horizontally when corner mounted		
Walk test LED's		Red Alarm		
Remote LED enal	ble	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

		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 pow	er	0.011uw/cm2@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 conta	acts		
Alarmperiod		Approximately 3 seconds			
Temperature ra	nge	-10°C to 55°C/14°F to 130°F			
Microwave rang	eadjustment	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 ena	ble	Control of LED indication using test line			
Anti-masking	Indication	-	Indicated on Aux output and LED's if selec	cted	
	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	WxD)	110 x 66 x 42mm			

Ordering information

Part No.	Description
W76555	PQ1515m
W76558	PQ15AM15m
W76561	DT1515m
W76570	DT15 AM15m

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



