



INTERNAL DETECTORS

Wired and two-way wireless grade 2 and 3 internal detectors

An extensive range of internal detectors utilising the latest Pyronix patented technologies for residential, commercial and light industrial use.

The KX range of Passive Infrared Detectors (PIRs) are ideal for residential installs, delivering detection up to 30m, animal immunity up to 25kg, auto sensitivity and more. There is also the compact pet immune Colt which has an unobtrusive style or the Break-Glass detector which monitors your windows. Any combination of these can cover lounges, kitchens, bedrooms, extended corridors, bedroom areas and more.

For light industrial and commercial use there is our KX Dual Technology range. As both sensors need to be triggered to sound the alarm, these are perfect for harsher environments, such as mechanics workshops, aisles or storage facilities. The range also includes fantastic anti-blocking and anti-mask variant for Grade 3 installs.



KX Internal dual technology detectors

Dual technology

Dual technology improves the reliability of the detectors as, to get an alarm condition, both PIR and Microwave technologies have to be activated simultaneously, thus increasing stability in hostile environments.

Blue Wave Technology

Safeguards against false alarms and improving immunity to interference through advanced signal processing and 3D optics.

Digital temperature compensation

Digital temperature compensation digitally adjusts the sensitivity of the detectors, maintaining the detectors specified range when the background temperature is near to body temperature.

Anti-cloaking technology

AND/OR anti-cloaking technology gives priority to the microwave sensor under certain conditions, such as an intruder wearing clothing with infrared cloaking properties, maintaining performance.*

Independent Floating Thresholds

IFT technology (Independent Floating Thresholds) ensures that the alarm thresholds are always kept within predetermined limits, eliminating electrical environmental disturbances.

Automatic sensitivity

The detector is able to self-adapt to changing environmental conditions, ensuring stability and intruder catch performance is maintained.

Anti-masking (anti-spray)

Adjustable anti-masking technology offers unique protection against attempts to mask the PIR or microwave and detects masking with a variety of materials, such as, cardboard, duct tape, spray, lacquer or aluminium foil.*

DEOL resistors

On board DEOL resistors reduce installation time. The range of values covers the majority of systems.*

Different microwave frequencies

Avoids interference (cross-talk) that can occur when two detectors with microwave modules in them are installed within close proximity of each other. This optimises detector stability.


Anti-blocking technology

Any attempt to block the field of view is detected. This allows the detector to send a signal to the panel to inform it that the detection area is being blocked, and must be removed before the system is set.*

KX internal dual technology detectors



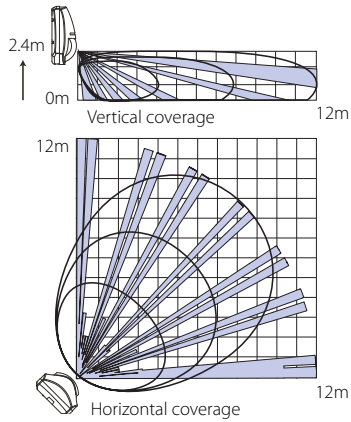
KX12DT-WE KX10DTP-WE KX15DTAM KX15DT KX10DTP

	KX12DT-WE	KX10DTP-WE	KX15DTAM	KX15DT	KX10DTP
Coverage	Volumetric	Volumetric	Volumetric, Curtain, Long range	Volumetric	Volumetric
Maximum range	12m	10m	15m/18m/30m	15m	10m
Optimal installation height	1.8-2.4m	1.8-2.4m	1.8-2.4m	1.8-2.4m	1.8-2.4m
Creep-zone protection	✓	✗	✓	✓	✗
Key features					
Adjustable anti-masking (anti-spray)	✗	✗	✓	✗	✗
Anti blocking technology	✗	✗	✓	✗	✗
Animal immune	✗	Up to 24kg	✗	✗	Up to 24kg
Blue Wave Technology	✓	✓	✓	✓	✓
Automatic sensitivity	✓	✓	✓	✓	✓
Digital temperature compensation	✓	✓	✓	✓	✓
Anti-cloaking technology	✗	✗	Anti-Blocking	And/or	And/or
Separate indication: microwave, PIR and alarm	✓	✓	✓	✓	✓
3 microwave frequencies to avoid interference	✓	✓	✓	✓	✓
DEOL resistors on board	✗	✗	✓	✓	✓
Tamper protection included	✓	✓	✓	✓	✓
Signal Strength Indicators (SSI)	✓	✓	n/a	n/a	n/a
Wired					
Power supply	-	-	9-16 DC (12DC nominal)		
Current consumption at rest	-	-	23mA		
Current consumption in alarm	-	-	30mA		
Relay type	-	-	Solid state		
Output relay	-	-	60DC, 50mA protection		
Tamper terminal	-	-	12DC max, 50mA max		
Wireless electrical specifications					
Transmission frequency	868MHz, FM transceiver		-		
Transmission method	128bit encrypted radio protocol		-		
Range in open space	1600m		-		
3V lithium battery included	2x CR123A		-		
Minimum battery life (years)	2		-		
Electrical specifications					
RFI immunity from continuous wave (CW), modulated wave (AM) and pulse (PM) 80-2700MHz	25 V/m		25 V/m		
Microwave frequency	10.515, 10.525, 10.535GHz		10.515, 10.525, 10.535GHz		
Alarm response	-		2.5 second		
Detection speed	0.3 - 3m/s		0.3 - 3m/s		
Direct light filter	>6500 Lux		6500 Lux		
Optics	Sealed		Sealed		
Geometric lens configuration	3D		3D		
Other details					
Operating storage temperature	-10°C / +40°C -20°C / +50°C		-30°C / 50°C -40°C / 70°C		
Weight	135g		125g		
Dimensions	117x69x59mm		117 x 69 x 55 mm		
Warranty	2 years		5 years		
Accessories					
Wall/ceiling brackets included (KXBRACKET-C, KXBRACKET-W)	Sold separately	Sold separately	✓	✓	✓
Long range and curtain lenses included (KX30-LR e KX18-LC)	Sold separately	Sold separately	✓	✗	✗
Bracket back tamper kit included	✗	✗	✓	✗	✗
Certification					
Electrical conformity	CE	CE	CE	CE	CE
EN50131	Grade 2	Grade 2	Grade 3	Grade 2	Grade 2
Environmental class	II	II	II	II	II
	CA12.01483	CA12.01484	CA12.01176	CA12.01175	CA12.01425

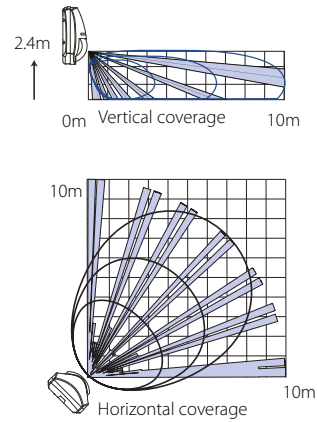
KX internal dual technology detectors

Lens diagrams

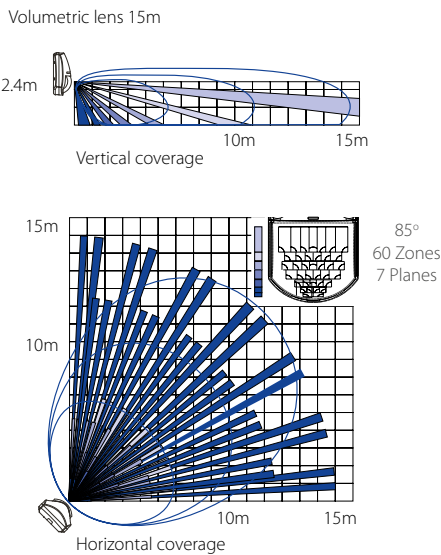
KX12DT-WE



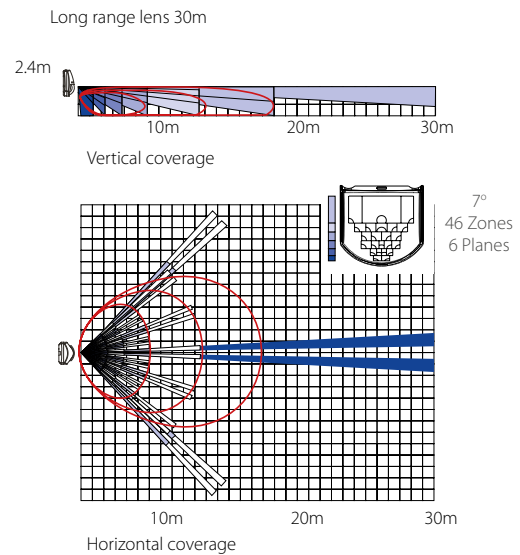
KX10DTP-WE & KX10DTP



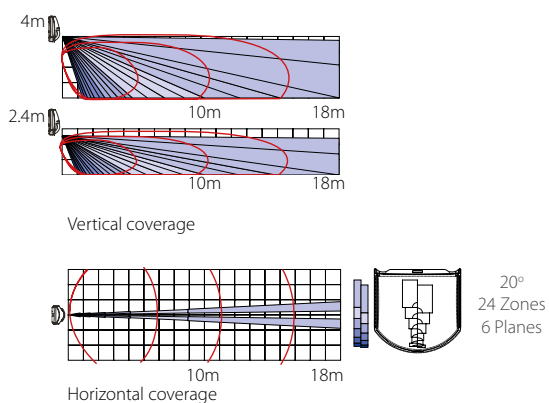
KX15DT - KX15DTAM



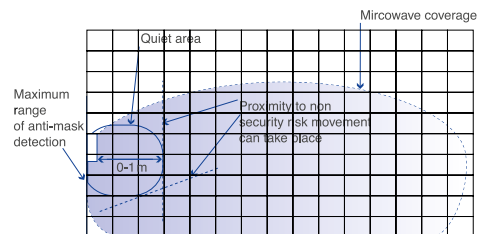
KX15DTAM long range









KX15DTAM



Anti-Masking



Accessories

	KXBRACKET-C	Ceiling bracket for the KX range (10pcs)		KX15-VL	Replacement volumetric lens for KX 15m (3pcs)
	KXBRACKET-W	Wall bracket for the KX range (10pcs)		KX-TAMPER	Tamper kit for the KX brackets (10pcs)
	KX30-LR	Replacement long range lens for KX 30m (3pcs)		BATT-CR123A	Replacement 3V lithium battery CR123A



KX internal PIR range detectors

Blue Wave Technology

Safeguards against false alarms and improving immunity to interference through advanced signal processing and 3D optics.

Digital temperature compensation

Digital temperature compensation digitally adjusts the sensitivity of the detectors, maintaining the detectors specified range when the background temperature is near to body temperature.

Optical 3D system

Allows for better focussing of areas to improve the detection of moving targets and ensure more precise signals can be received from the PIR. The 3D system also allows protects of the area below the detector (creep zone).

Independent Floating Thresholds

IFT technology (Independent Floating Thresholds) ensures that the alarm thresholds are always kept within predetermined limits, eliminating electrical environmental disturbances.

Automatic sensitivity

The detector is able to self-adapt to changing environmental conditions, ensuring stability and intruder catch performance is maintained.

DEOL resistors

On board DEOL resistors reduce installation time. The range of values covers the majority of systems.*

3mm ABS plastics

Detector housings are consistent throughout the range of KX detectors and ensure great resistance to environmental factors to maintain consistent performance over long periods of time.

Ceiling mount technology

Combines a quad interlocking sensor and the 360 degree optical system, to provide large volumetric coverage at all installation heights up to 4m.

KX internal PIR range detectors



KX15DQ



KX10DP



KX18DC

Optical and range features

Volumetric coverage: 85 degree, 7 planes, 60 zones	✓	✗	✗
Pet detection: 85 degree, 6 planes, 56 zones	✗	✓	✗
Curtain coverage: 20 degree, 6 planes, 46 zones	✗	✗	✓
Long range coverage: 20 degree, 6 planes, 24 zones	✗	✗	✓
Maximum range	15m	10m	18m / 30m LR
Optimal installation height	1.8-2.4m	1.8-2.4m	Max 4m / 1.8-2.4m
Creep-zone protection	✓	✗	✓

Key features

Animal immune	✗	24kg	✗
Blue Wave Technology	✓	✓	✓
Automatic sensitivity	✓	✓	✓
Digital temperature compensation	✓	✓	✓
Optical quad	✓	✗	✗
DEOL resistors on board	✓	✓	✓
Tamper protection included	✓	✓	✓

Electrical specifications

Power supply	9-16 DC (12DC nominal)
Current consumption at rest	11mA
Current consumption in alarm	13mA
Relay type	Solid state
Outputs relay	60DC, 50mA protection
Tamper terminal	12DC max, 50mA max
RFI immunity from continuous wave (CW), modulated wave (AM) and pulse (PM) 80-2700MHz	25 V/m
Alarm response	2.5 seconds
Detection speed	0.3 - 3m/s
Direct light filter	6500 Lux
Optics	Sealed optics
Geometric lens configuration	3D


Other details

Operating storage temperature	-30°C -50°C -40°C - 70°C
Weight	125g
Dimensions	117 x 69 x 55 mm
Warranty	5 years

Accessories

Ceiling bracket included, KXBRACKET-C	✓	✓	✓
Wall bracket included, KXBRACKET-W	✓	✓	✓
Additional long range lens included, KX30-LR	✗	✗	✓

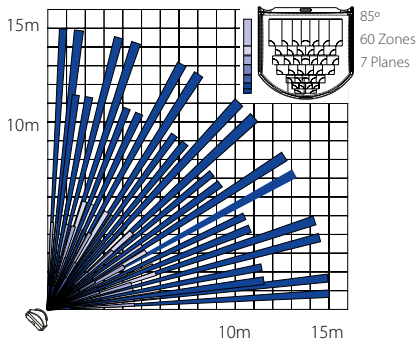
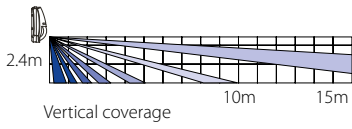
Certification and warranty

Electrical conformity	CE	CE	CE
EN50131	Grade 2	Grade 2	Grade 2
Environmental class	II	II	II
	CA12.01172	CA12.01173	CA12.01174

KX internal PIR range detectors

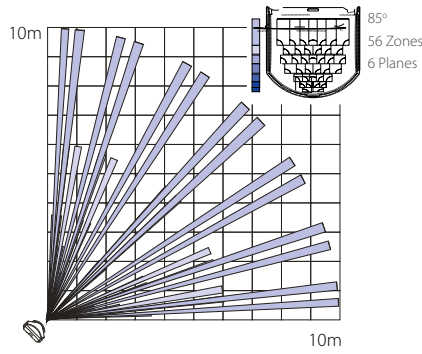
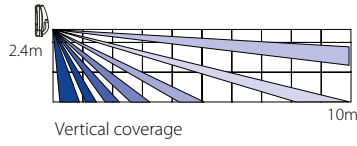
Lens diagrams

KX15DQ



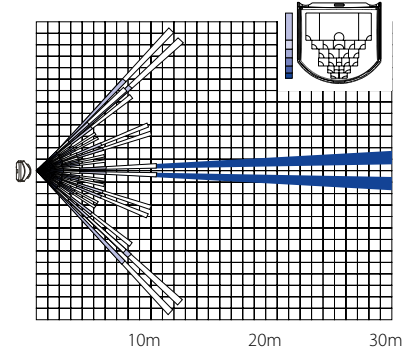
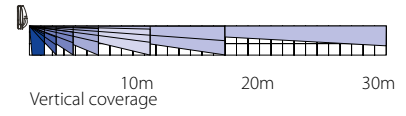
Lens: KX15VL

KX10DP



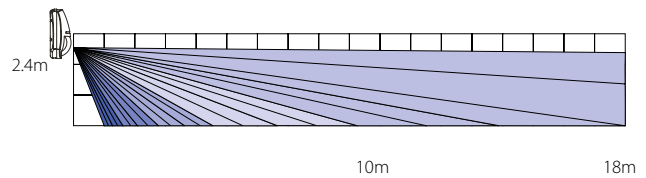
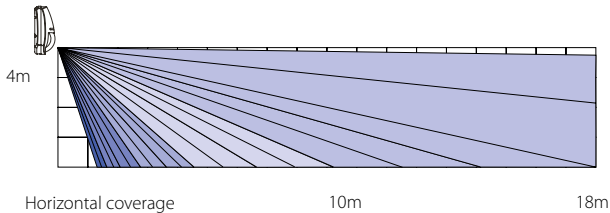
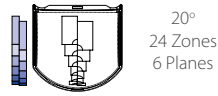
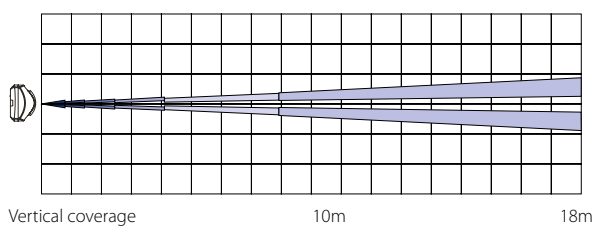
Lens: KX15VL

KX18DC Long Range



Lens: KX30LR

KX18DC (Vertical curtain)



Accessories



KXBRACKET-C

Ceiling bracket for the KX range (10pcs)



KX30-LR

Replacement long range lens for KX 30m (3pcs)



KXBRACKET-W

Wall bracket for the KX range (10pcs)



KX15-VL

Replacement volumetric lens for KX 15m (3pcs)



KX18-LC

Replacement curtain lens for KX 18m (3pcs)



KX-TAMPER

Tamper kit for the KX brackets (10pcs)



Colt range



COLT10DL

Optical and range features

Volumetric coverage: 90 degree, 56 zone and 5 planes	✓
Maximum range	10m
Optimal installation height	1.8-2.4m

Key features

Animal immune	Up to 10kg
Digi logic technology	✓
Adjustable sensitivity	✓
Tamper protection	✓


Electrical features

Operating voltage	9 - 16 VDC
Quiescent current consumption	15mA at 12V
Relay outputs	SELV limits, 60Vdc, 50mA (42.4Vac peak)
Tamper switch	12V 50mA

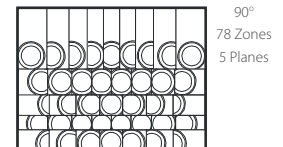
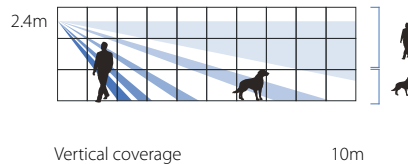
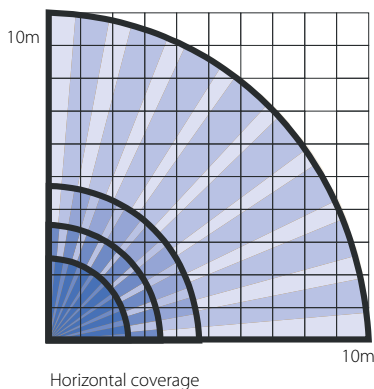
Other details

Operating storage temperature	-30°C to 70°C -40°C to 80°C
Weight	58g
Dimensions	82 x 50 x 41mm
Warranty	5 years

Certifications

Electrical conformity	CE
EN50131	Grade 2
Environmental class	II
 Pyronix	Self-certified

Lens diagrams



Accessories



Lens 5

Replacement lens. 90 degree, 5 planes, 74 zones (3pcs)



KXBRACKET-C

Ceiling bracket included, KXBRACKET-C (10pcs)



KXBRACKET-W

Wall bracket included, KXBRACKET-W (10pcs)

Internal ceiling mount PIR detector - Octopus EP



OCTOPUS EP

Optical and range features

Volumetric coverage: 360 degree, 156 zone, 3 planes	✓
Maximum range	12m
Optimal installation height	2,4-4m
Ceiling mount PIR	✓

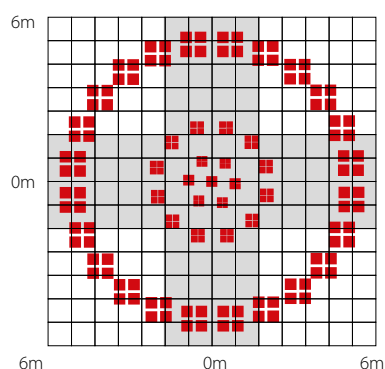
Key features

Quad-interlocking element pyroelectric sensor	✓
Independent Floating Threshold (IFT) technology	✓
Adjustable sensitivity	✓
Automatic temperature compensation	✓
Power supply	9-16DC (12DC nominal)
Relay type	Solid state
Outputs relay	60DC, 50mA protection
Tamper terminal	12DC max, 50mA max
RFI immunity from continuous wave (CW), modulated wave (AM) and pulse (PM) 80-2700MHz	10 V/m
Alarm response	2.5 seconds
Detection speed	0.3 - 3m/s
Geometric lens configuration	3D
Warranty	5 years

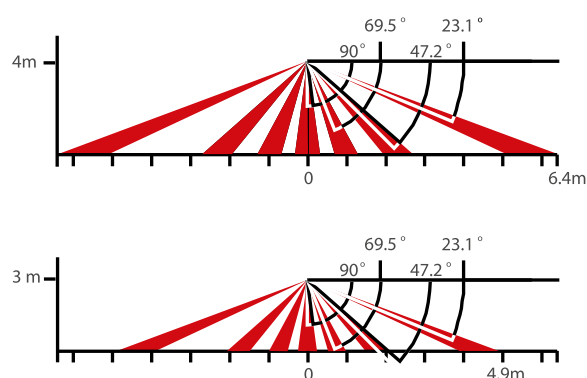
Certification

Electrical conformity	CE
EN50131	Grade 2
Environmental class	II
 Pyronix	Self-certified

Lens diagrams



Vertical coverage



Horizontal coverage

Breakglass detectors



BG2000



BG16DF

Key features

Designed for most types of glass	✓	✓
Coverage diameter	8m	6m
Angle of coverage	360°	360°
Digital technology	✓	✓
Dual confirmation detection - first impact	✓	✓
Detects the frequency of glass flexing	✓	✓
Detects the frequency of glass breaking	✓	✓
Installation Test Mode	✓	✓
Option to Latch Alarm Relay	✓	✓

Electrical specifications

Power	9-16DC (12V nominal)	
Current consumption at rest	30mA (a 13.8V)	
Current consumption in alarm	28mA (a 13.8V)	
Outputs relay	60DC, 50mA protection	
Tamper terminal	12V max, 50mA max	
RFI immunity from continuous wave (CW), modulated wave (AM) and pulse (PM) 80-2700MHz	10 V/m	
Glass type	Float, piano, reinforced, laminated, leaded, double glazed	
Glass thickness	2.4mm to 6.4mm	
Glass dimensions	0.3m x 0.3m to 3m x 3m	
Alarm duration	2.5 seconds	
Detection speed	0.2 - 3m/s	
Installation height	2.4-8m	

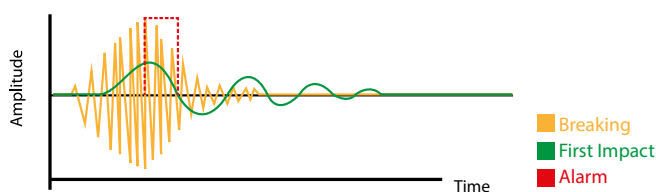
Other details

Operating storage temperature	-10 - 50 -20 - 70	
Weight	100g	
Dimensions	90 x 90 x 30mm	
Warranty	2 years	

Certifications

Electrical conformity	CE	CE
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Combination of both frequencies (Alarm)



Breakglass tester

BG-TESTER

Key features

Reproduces the frequency of first impact	✓
Reproduces the frequency of glass flexing	✓
Reproduces the frequency of glass breaking	✓
Warranty	2 years

Certifications

Electrical conformity	CE
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EXTERNAL DETECTORS

Wired and two-way wireless detectors for residential and commercial protection

There are two different options within the XD range: a high mount XDH for volumetric coverage and a low mount XDL for perimeter protection.

The detectors combine 1 microwave and 2 PIR sensors to ensure maximum stability in an external environment.

The wired XD detectors also utilise high security features such as anti-masking (anti-spray) and anti-blocking technology.

For ease of use, all detectors include a walk-test buzzer to ensure they have been correctly installed. On the wireless XD detectors this can be enabled by a switch on the detector or by activating walk-test mode on the control panel.



External detector technology

XDH detectors (H - high mount)

High mount detectors are designed to be installed at 2.4m. The optics of the XDH detectors are designed to give optimum volumetric coverage of the protected area, using 78 zones, 5 planes and 85 degree coverage.

XDL detectors (L - low mount)

Low mount detectors are designed to be installed at 1.2m. The optics of the XDL detectors are designed to give optimum curtain coverage of the protected area, using 6 zones, 1 plane and 14 degree coverage.

Triple technology detection

Helping to reduce false alarms by using a tri-signal detection logic, in which the alarm is only generated when the two PIR and microwave sensors are all activated in a given period of time.

Automatic sensitivity

The detector is able to self-adapt to changing environmental conditions, ensuring stability and intruder catch performance is maintained.

Digital temperature compensation

Digitally adjusts the sensitivity of the detectors, maintaining the specified range when the background temperature is near to body temperature.

Independent Floating Thresholds

IFT technology (Independent Floating Thresholds) ensures that the alarm thresholds are always kept within predetermined limits, eliminating electrical environmental disturbances.

Anti-blocking technology

Ensures that any attempt to block the field of view is detected. This allows the detector to send a signal to the panel, informing it that the detection area is being blocked.

DEOL resistors

On board DEOL resistors reduce installation time. The range of values covers the majority of systems.

Anti-masking (anti-spray)

Adjustable anti-masking technology offers unique protection against attempts to mask the PIR or microwave and detects masking with a variety of materials, such as, cardboard, duct tape, spray, lacquer or aluminium foil.*

Different microwave frequencies

Avoids interference (cross-talk) that can occur when two detectors with microwave modules in them are installed within close proximity of each other. This optimises detector stability.

Weatherproof technologies

Ensuring the detector is not affected by adverse weather conditions. These technologies employ the use of polycarbonate housing, sealed optics, humidity protection, as well as a heavy duty ultraviolet filter.

Vegetation sway elimination

Allowing the detector to distinguish between regular movement of trees and plants with the movements of an intruder to ensure maximum false alarm protection.

*Wired XD detectors only

Two-way wireless external detectors



XDH10TT-WE



XDL15TT-WE Coming Q1 2017

Features

Installation type	XDH	XDL
Optimal installation height	2.4m	1.2m
Coverage	Volumetric	Curtain
Maximum range	10m	15m
Animal immunity	10kg	25kg

Key features

Two-way wireless	✓
Tri-signal detection logic	2 x infrared + 1 x microwave
Automatic sensitivity	✓
Digital IFT technology	✓
Temperature compensation	Digital
3 LED indication for microwave, infrared and alarm	✓
3 different microwave frequencies	✓
Integrated walk test buzzer	✓
Tamper	✓

Electrical specifications

Transmission frequency	868MHz, FM Transceiver
Transmission method	128bit encrypted radio protocol
Range in open space	1600m
3V lithium battery included	2x 3V 5AHr (BATT-ES1)
Minimum battery life (years)	3
Plastic housing material	Polycarbonate
PCB	Anti-humidity
Optics	Sealed
Lens UV protection	UV Filter
Environmental protection grade	IP55

Other details

Operating storage temperature	-30°C/+55°C -40°C/+50°C
Weight	500g
Dimensions	180mm x 80mm x 105mm
Warranty	2 years







Accessories

2 flexible masking grids	✓	✗
2 fixed masking grids to create curtain protection	✓	✓

Certification

CE declaration	CE	CE
EN50131	Grade 2	Grade 2
Environmental class	IV	IV
	Self-certified	Self-certified

Accessories

	XD-WALLBRACKET	Adjustable wall bracket +/- 45 degrees with anti-tamper protection. This allows for better volumetric coverage.		BATT-ES1	2x Lithium batteries. Used with Deltabell-WE, XD wireless detectors and Keypad, 3v, 5Ah
	XD ADAPTER	45 degree adapter for use with the XD-WALLBRACKET. This allows the XD detectors to be positioned at 90 degrees to the wall for protection of walls.		XD-LENS 5	Volumetric lens for the XDH. Installation 2.4m, 85 Degrees, 10m detection distance. (3pcs)
	XD FIXEDBRACKET	Wall bracket with rear tamper. This can be used to create 30m coverage protection of external walls.		XD-LENS 4	Long range lens for the XDL series of detectors. 14 degree coverage, 6 zone edges, 1 plane. (3pcs)

Wireless coverage patterns and features



One-push-to-learn button

Batteries
Extra power pack 2 x 3V Lithium 4700mAh

Weatherproof housing
The housing of the XD detectors is made from 3mm thick polycarbonate plastic. This provides a robust barrier to the external environment, protecting the PCB and components from the effects of adverse weather conditions. The housing is made with a UV coating which stops the yellow aging of the plastic over time. The hood provides protection to snow, rain and other environmental disturbances.

Tamper button
DIP switches

Tamper
Terminal input for bracket

Microwave potentiometer
For altering microwave range: 0m to 15m (XDL) 0m to 10m (XDH)

See in action



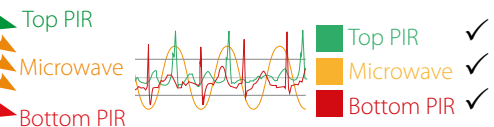
Installation in 4 steps

- Step 1: Learn the detector and program the zone
- Step 2: Perform a signal strength test
- Step 3: Install the detector
- Step 4: Perform a walk test to check the correct installation

Tri-signal detection logic



Alarm activation



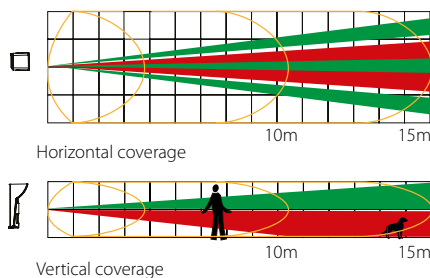
XDL detectors / L - Low mount installation - 1.2m

The optics of the XDL15TT-WE are designed to be installed at a low mounting height of 1.2m, giving a larger immunity to animals; 6 zones, 1 plane, and coverage of 14 degrees provides the best perimeter protection.

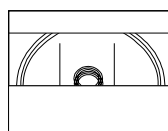
XDH detectors / H - High mount installation - 2.4m

The optics of the XDH10TT-WE detector are specifically designed for maximum protection to a height of 2.4m installation: 78 zones, 5 planes, and the 90 degree coverage provides complete volumetric coverage of the protected area.

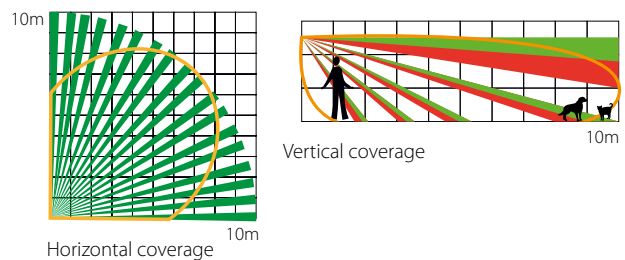
XDL15TT-WE lens diagrams with the XD-LENS4



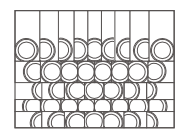
14°
6 Zones
1 Planes



XDH10TT-WE lens diagrams with the XD-LENS5



90°
78 Zone
5 Planes



Wired external detectors

External tri-technology detectors



XDH10TT-AM



XDL15TT-AM

Optical and range features

	XD High Mount	XD Low Mount
Mounting height	2.4m	1.2m
Optimal installation height	2.4m	1.2m
Adjustable anti-masking (anti-spray) technology	✓	✓
Volumetric coverage	✓	✗
Curtain coverage with fixed mask	✗	✓
Maximum range	10m	15m

Key features

Anti-masking (anti-spray)	✓	✓
Anti-blocking technology	✓	✓
Animal immune	Up to 10kg	Up to 25kg
Triple detection logic: 2 x infrared + 1 x microwave	✓	✓
Automatic sensitivity	✓	✓
Independent Floating Threshold (IFT) technology	✓	✓
Digital temperature compensation	✓	✓
Separate indication: microwave, infrared, alarm	✓	✓
3 microwave frequencies to avoid interference	✓	✓
Integrated walk test buzzer	✓	✓
DEOL resistors on board	✓	✓
Tamper protection included	✓	✓

Electrical specifications

Relay output	3x SELV limit; 60DC 50mA (43.4AC at peak)
Internal tamper	12DC 50mA front and rear
Current consumption	23mA at rest/ 30mA in alarm
Relay	Alarm NC, Tamper, Mask/Fault, Alarm NO
Power	9-16DC, 13.8DC - 13.8DC nominal
RFI immunity from modulating wave (AM) and pulse modulated (PM) 80-2700MHz	25 V/m
RFI immunity from continuous wave (CW) 80-2700MHz	75 V/m
Microwave frequency	9.87, 9.90, 9.91 GHz
Direct light filter	>6500 Lux
Optics	Sealed optics
Geometric lens configuration	2D
Protection	IP55
Detection speed	0.25 - 3 m/s

Other details

Operating storage temperature	-30/+50 -40/+70
Weight	300g
Dimensions	118 x 77 x 84mm
Warranty	2 years

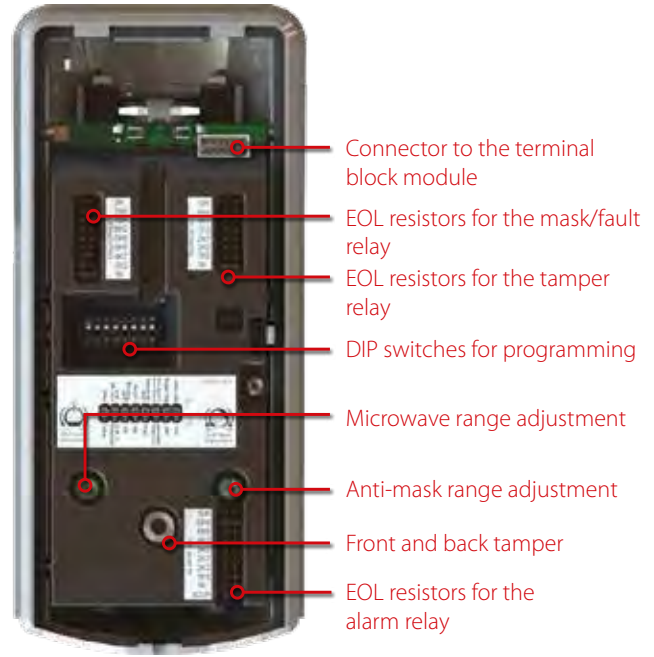
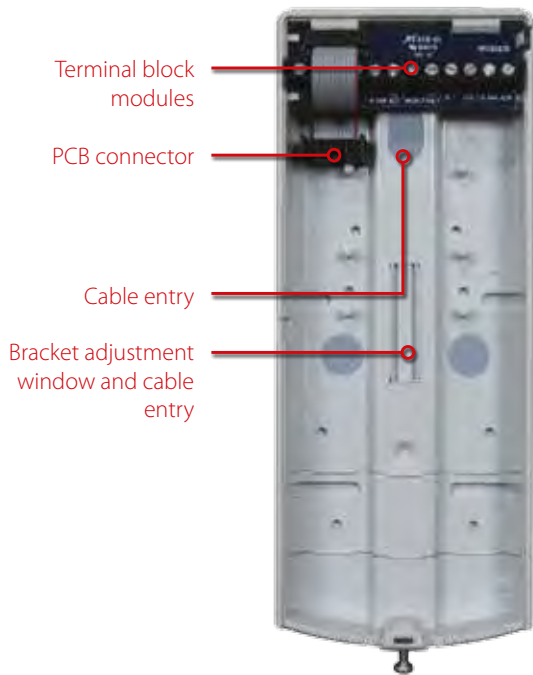
Accessories

2 adjustable masking lenses included	✓	✗
2 fixed masking grids to create curtain protection	✓	✗

Certifications

Electrical conformity	CE	CE
EN50131	Grade 3	Grade 3
Environmental class	IV	IV
 Pyronix	Self-certified	Self-certified

Wired coverage patterns and features



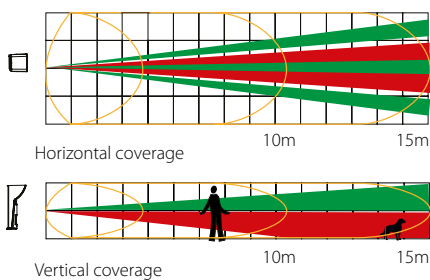
XDL detectors / L - Low mount installation - 1.2m

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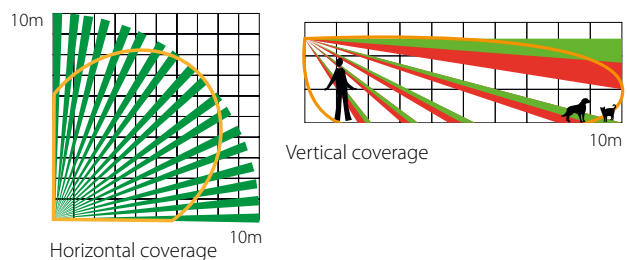
XDH detectors / H - High mount installation - 2.4m

The optics of the XDH10TT-AM detector are specifically designed for maximum protection to a height of 2.4m installation: 78 zones, 5 planes, and the 90 degree coverage provide complete volumetric coverage of the protected area.






XDL15TT-AM Lens diagrams with the XD-LENS4



XDH10TT-AM Lens diagrams with the XD-LENS5



Accessories

	XD WALL BRACKET	Adjustable wall bracket +/- 45 degrees with anti-tamper protection. This allows for better volumetric coverage.		XD-LENS 5	Volumetric lens for the XDH. Installation 2.4m, 85 Degrees, 10m detection distance. (3pcs)
	XD ADAPTER	45 degree adapter for use with the XD-WALLBRACKET. This allows the XD detectors to be positioned at 90 degrees to the wall for protection of walls.		XD-LENS 4	Long range lens for the XDL series of detectors. 14 degree coverage, 6 zone edges, 1 plane. (3pcs)
	XD FIXED BRACKET	Wall bracket with rear tamper. This can be used to create 30m coverage protection of external walls.			