

180 degree PANORAMIC OUTDOOR DETECTOR

WX SHIELD series



WIRED MODELS

WXS-AM: 12m (40ft), 180° with anti-masking WXS-DAM: added dual-technology (PIR + Microwave)

BATTERY-OPERATED MODELS

WXS-RAM: wireless 12m(40ft), 180° with anti-masking WXS-RDAM: added dual-technology (PIR + Microwave)



SHIELD: the new shape of security

Integrating the 180° PIR and Microwave Technologies in the SHIELD CONCEPT DESIGN



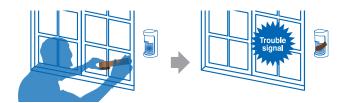
Reliable

Individual sensitivity setting

Detection sensitivity can be individually set to High, Medium and Low for the left and right detection areas, using the corresponding switches.

Self-learning IR digital anti-masking function

WXS series detects covering objects on lens surface by utilising an internal active infrared system. Both emitting and receiving level of IR LED are optimised in real time to adapt to environmental conditions. This enables stable monitoring of the status of lens surface.

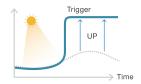


Individual alarm outputs

The WXS sensors feature two completely independent 90 degrees detection areas (left and right) triggering independent alarm outputs, which can be utilised in PTZ activation for example.

Sunlight disqualification

The trigger level for the antimasking is automatically adjusted when sunlight is too strong.



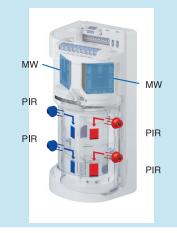
Raindrop and insect resistance

The WXS series is resistant to raindrops, insect and spiders.





Enhanced Reliability with combined PIR and microwave technology



4PIR + 2MW technology

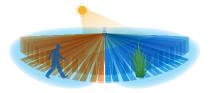
(WXS-DAM and WXS-RDAM only)

The PIR and microwave detection range, the sensitivity and alarm output can all be set independently for the left and right detection areas. This provides more flexibility and greater reliability against nuisance alarms.

Stability against light disturbance

(WXS-DAM and WXS-RDAM only)

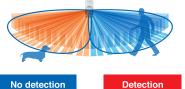
The WXS series' integrated PIR and Microwave algorithm provides the ultimate stability in detection performance. Ideal for applications where strong sunlight hits the land or car headlights shine directly into the sensor.



Panoramic triple layer detection

(WXS-DAM and WXS-RDAM only)

WXS series triggers an alarm only when the three layers of detection - the upper and lower passive infrared sensors and the microwave sensor, detect motion.



Individual detection area size (WXS-DAM and WXS-RDAM only)

In the low mount application, the left and right PIR detection distance can be easily adjusted between 2.5m (8ft) and 12m (40ft) by sliding the switch. The Microwave sensitivity can be set also set individually

12m

using the DIP switch.

Other common features for all models

Double conductive shielding

Sensitivity adjustment switch

•SMDA logic (Super Multidimensional Analysis)











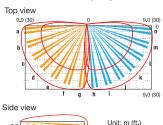


Convenient

Selectable mounting height

In a low mount configuration, the WXS series should be installed between 0.8 and 1.2m (2'7" and 4') high. The WXS can also be installed as high mount sensor, at 2.0m (6'7")

high, this can be effective in avoiding vandalism or masking of lens. In this case, PIR detection distance is fixed as max 9m (30ft).





Blue Touch™

All accessible parts are coloured in blue, making installation a more friendly procedure.



All the components needed for the sensor's adjustment and settings are in blue.

Easy to adjust the detection area



Day /night mode

Night mode is selectable if alarm outputs are required only when ambient light levels are low.

For example, it can be used for lighting control.

Screw free design

You can open/close the front cover and remove/ insert the main unit without any screws. It contributes to reduction of installation time.







Remove main unit



Insert main unit



Auto lock



Automatic walk test begins when you close the front cover and ends after 3 minutes.

Easy and flexible detection area settings

Area masking shutter

By rotating the sliding masking shutter, the size of detection areas can be changed.







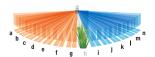
Picture showing the masking shutter positioned on "d" for the left detection area and k for the right area. The areas a-d and k-n are masked.

Area masking plate

Unwanted detection areas can be masked using the area masking plates, which are included.







When a MKP-01 is set on position h, detection area h is masked.

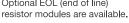


Secure

A sense of security, designed for you

EOL module socket (WXS-AM, DAM only)

Optional EOL (end of line)



Wide LED window

Wide and bright LED for recognition from distance

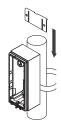
Cover tamper

A tamper output is generated when front cover is open.



Pole mount (option PMP-01)

An optional pole mount plate is suitable for a metal band up to 23 mm (1 inch) in width



Back tamper

A tamper output is generated when unit is removed from the wall.

Level indicator

WXS series features a level indicator to ease the installation process.



Coverage (Low mount) Unit: m (ft.) 12.0 (40) 12.0 (40) 12.0 (40) Side view

Dimensions Battery-operated Model Wired Model Unit: mm (inch) **(1)** 81.5 (3.21) 81.5 (3.21) 91.7 (3.61) 68 (2.68) 68 (2,68 201 5 (7 93) 201 5 (7.93) 200 (7.87) (3.94) (3,94)

Options Plug-in EOL (PEU) Pole mount plate (PMP-01) Battery holder (BH-01) Area masking plates x 10 pcs (MKP-01). 5 pcs of area masking plates are already included in WXS Back box (WXI-BB)

and battery (to be purchased separately)	130 119	52	119		52	
				Unit:	: years (appro	
	Model		WXS-RAM		WXS-RDAM	
	Interval (sec.)	120	5	120	5	

CR123A (3 V DC, 1300 mAh)

CR2 (3 V DC, 750 mAh)

1/2AA (3.6 V DC, 1000 mAh)

with BH-01

3.5

2.5

3.5

2.5

0.5

0.8

Specificat	tions							
Model		WXS-AM	WXS-DAM	WXS-RAM	WXS-RDAM			
Detection method		Passive infrared	Passive infrared & Microwave	Passive infrared	Passive infrared & Microwave			
PIR coverage			High mount: 9.0 m (30') 180° wide	Low mount 12 0 m (40) 180 wide				
PIR zones		High mount: Horizontal 14 pairs, vertical 4 layers Low mount: Horizontal 14 pairs, vertical 2 layers						
PIR distance li	mit	High mount: 9.0 m (fixed) Low mount: 2.5 to 12.0 m adjustable						
Detectable spe	eed	0.3 to 2.0 m/s (1' to 6'7"/s)						
Sensitivity		2.0°C (3.6°F) at 0.6 m/s Selectable for each side individually						
Power input		9.5 to 1	18 V DC	3.0 to 3.6 V DC lithium battery				
Current draw (except walk test)		23 mA max. at 12 V DC	24 mA max. at 12 V DC	19 μA stand-by	24 μA stand-by			
		25 HA Hax. at 12 v bo		4 mA max. at 3 V DC	6 mA max. at 3 V DC			
Alarm period		2.0 ± 1.0 sec.						
Warm-up perio	od	60 sec. or less (LED blinks)						
Alarm (R) outp	ut	28 V DC 0	0.1 A max.	Solidstate switch, 10 V DC 0.01 A max.				
Alami (n) output		[Individual; Right or General]	, [N.O. or N.C.] are selectable	[Individual; Right or General], [N.O. or N.C.] are selectable				
Alarm (L) output		28 V DC (0.1 A max.	Solidstate switch, 10 V DC 0.01 A max.				
		[Individual; Left or General], [N.O. or N.C.] are selectable		[Individual; Left or General], [N.O. or N.C.] are selectable				
Trouble output		N.C. 28 V DC 0.1 A max.		-				
Tamper output	N.C. 28 V D	C 0.1 A max.						
	Open when either the cover,	main or base unit is removed	Tamper and trouble shared output "TR"					
		1. Warm-up 2. Alarm	3. Masking detection	1. Warm-up 2. Alarm 3. Masking detection				
LED indicator	Red	4. "High mount" setting (When	the tamper switch is activated,	4. "High mount" setting (When the tamper switch is activated,				
LED indicator		LED blinks if it is "H	ligh mount" setting.)	LED blinks if it is "High mount" setting.)				
	Yellow	-	1. Warm-up 2. MW detection	-	1. Warm-up 2. MW detection			
Operation temperature (except batteries)		-30°C to +60°C(-22°F to +140°F)	-20°C to +45°C(-4°F to +113°F)	-30°C to +60°C(-22°F to +140°F)	-20°C to +45°C(-4°F to +113°F)			
		95%	max.					
Internation pro	tection	IP 55						
Mounting		Wall, Pole (Outdoor , Indoor)						
Mounting height		High mount: 2.0 m (6' 7") Low mount: 0.8 to 1.2 m (2' 7" to 4')						
Weight		585 g (20.7 oz)	625 g (22.1 oz)	730 g (25.8 oz.)	770 g (27.2 oz.)			
Accessories			Mounting screw (4 x 20 mm) x 2 screw x 1	[1] Connector for POWER and ALARM (R) [2] Connector for ALARM (L) [3] Connector for TROUBLE [4] Velcro tape [5] Area masking plate x 5				
				[6] Mounting screw (4 x 20 mm) x 2 [7] Lock screw x 1				

Wireless transmitter

Battery type

- · Specifications and designs are subject to change without prior notice.
- These units are designed to detect an intruder and activate an alarm control panel.

 Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.



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