

BOUNDARY OUTDOOR DETECTOR BX SHIELD series

When superior performance meets modern design

The BX Shield is a series of outdoor PIRs providing 12m per side curtain coverage:

Black and white models BXS-ST: 12 m / 40 ft side by side (total 24 m / 80 ft) BXS-AM: with anti-masking BXS-R: Battery operated 12 m / 40 ft side by side (total 24 m / 80 ft) BXS-RAM: with anti-masking

White models BXS-ST (W) BXS-AM (W) BXS-R (W) BXS-RAM (W)

SHIELD: the new shape of security

4 PIR SENSORS, IR DIGITAL ANTI-MASKING AND SHIELD CONCEPT DESIGN

Reliable

Reliable

SHIFLD

Secure

Up to 12m/ 40ft. flexible detection areas on each side of the sensor



AND logic function to reduce false alarms

The BX SHIELD only triggers an alarm signal when both upper and lower areas detect movement.



4 PIR technology

The detection range, sensitivity and alarm output can be set separately for the left and right detection areas. The sensor can differentiate between large and small objects within the detection area, reducing false activations and ensuring genuine intruder detection.



Individual detection area and sensitivity setting

Both left and right detection ranges can be independently adjusted. (2.5 to 12 m in 5 steps)





IR digital anti-masking function

Active IR anti-masking detects when the lens surface has been covered, blocked or painted.



Extreme high detection mode

For environments where the temperature difference between the human body and the background is very small, the extreme high detection mode increases the PIR sensitivity to prevent any missed alarms.



SENSITIVITY



SMDA (Super Multidimensional Analysis) logic

All BX SHIELD models feature a digitally enhanced signal recognition logic called SMDA increasing detection reliability. By analysing the detection patterns and environmental information SMDA can differentiate between genuine intrusions and a number of noise factors such as changes in weather conditions and swaying vegetation.



Individual signal outputs (left and right)

The BX SHIELD triggers independent alarm outputs for the left and the right detection areas which is useful when connected to PTZ cameras.





Convenient



90 degrees rotation mechanism Easy to open / close cover





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

Automatic walk test mode

Walk test mode will time out after three minutes and the setting will return to "normal mode".

Product Features

Level indicator The BX SHIELD series features a level indicator to ease the installation process.





Secure HIELD A sense of security, designed for you

Flat profile supported by an internal honeycomb structure ensures durability.





Optical lens units are sealed and re-enforced to add extra strength.

Back tamper



Tamper output activates when face cover or back box is removed.

Battery life for the battery-operated models



•Cover tamper

Coverage Dimensions BXS-ST / BXS-AM Side view Top view Unit: m (ft.) Unit: mm (inch) 2.5 m (8 ft) 92.8 (3.65) 1.0</td TO WALL 0° 0° [] - [] 0° 3.5 m (12 ft) 52.7 (2.07) 10.0 12.0 (33) (40) 0 5.0 (17) 12.0 10.0 (40) (33) 5.0 (17) 12.0 10.0 5.0 0 5.0 10.0 12.0 AWAY WALL 3° 6.0 m (20 ft) 199.7 (7.86) 3° 12.0 10.0 5.0 0 5.0 10.0 12.0 12.0 10.0 (40) (33) 5.0 (17) 0 5.0 (17) 10.0 12.0 (33) (40) 8.5 m (28 ft) 12.0 10.0 5.0 0 5.0 10.0 12.0 12.0 m (40 ft) 12.0 10.0 5.0 0 5.0 10.0 12.0 BXS-R / BXS-RAM 92.8 (3.65) Options PLUG-IN EOL BXS Pole mount plate **BXS** Face cover BXS Back box BXS Back box Cap BATTERY BOX 98.7 (3.89) (PEU) (White / Silver / Black) (White / Black) (White / Silver / Black) (RBB-01) 199.7 (7.86) Metal band: 23 mm or less in width Specifications

Model	BXS-ST	BXS-AM	BXS-R	BXS-RAM
Detection method	Passive infrared		Passive infrared	
Coverage	24 m (80') ; 12 m (40') on each side,		24 m (80') ; 12 m (40') on each side,	
	4 zones ; 2 zones on each side, 180° narrow		4 zones ; 2 zones on each side, 180° narrow	
PIR distance settings	2.5, 3.5, 6, 8.5, 12 m		2.5, 3.5, 6, 8.5, 12 m	
Detection angle from wall	TO WALL: 0° angled forward		TO WALL : 0° angled forward	
	AWAY WALL : 3° angled forward		AWAY WALL : 3° angled forward	
	selectable		selectable	
Detectable speed	0.3 to 2.0 m/s (1' to 6'7"/s)		0.3 to 2.0 m/s (1' to 6'7"/s)	
Sensitivity	Normal ; 2.0°C (3.6°F) at 0.6 m/s		Normal ; 2.0°C (3.6°F) at 0.6 m/s	
	Extreme high : 1.0°C (1.8°F) at 0.6 m/s		Extreme high : 1.0°C(1.8°F) at 0.6 m/s	
	selectable for each side individually		selectable for each side individually	
Power input	9.5 to 18 V DC		3 to 9 V DC Lithium or Alkaline batteries	
Current draw	31 mA max.	34 mA max.	15 µA stand-by /	16 µA stand-by /
(except walk test)	at 12 V DC	at 12 V DC	8 mA max. at 3 V DC	8 mA max. at 3 V DC
Alarm period	2.0 ±1 sec.		2.0 ±1 sec.	
Warm-up period	60 sec. or less (LED blinks)		60 sec. or less (LED blinks)	
Alarm output (R)	28 V DC 0.1 A max.		Solidstate switch, 10 V DC 0.01 A max.	
	[Individual;Right or General], [N.O. or N.C.] are selectable		[Individual;Right or General], [N.O. or N.C.] are selectable	
Alarm output (L)	28 VDC 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.	Solidstate switch, 10 V DC 0.01 A	max. [N.O. or N.C.] is selectable
Tamper output	N.C. 28 V DC 0.1 A max.		Tamper output is shared with trouble output.	
	open when face cover, main unit or base unit is removed			
	Red LED ; 1. Warm-up	Red LED ; 1. Warm-up	Red LED ; 1. Warm-up	Red LED ; 1. Warm-up
LED indicator	2. Alarm	2. Alarm , 3. Masking detection	2. Alarm	2. Alarm , 3. Masking detectio
	(DIP switch ON or Walk test)	(DIP switch ON or Walk test)	(DIP switch ON or Walk test)	(DIP switch ON or Walk test)
Operation temperature	-30°C to + 60°C (-22°F to +140°F)		-30°C to + 60°C (-22°F to +140°F)	
Relative humidity	95% max.		95% max.	
International protection	IP 55		IP 55	
Mounting	Wall, pole (outdoor,indoor)		Wall, pole (outdoor,indoor)	
Mounting height	0.8 to 1.2 m (2'7" to 4')		0.8 to 1.2 m (2'7" to 4')	
Weight	430 g (15.2 oz.)		550 g (19.4 oz.)	
Accessories	Screw (4 x 20 mm) x 2		 Connector for POWER and ALARM (R), [2] Connector for ALARM (L), Connector for TROUBLE, [4] Velcro tape, [5] Screw (4x20 mm) x 2 	

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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