





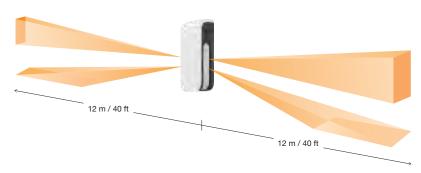
SHIELD: the new shape of security

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



Reliable

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.







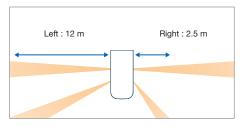
4 PIR technology

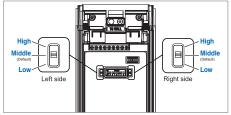
The detection range, sensitivity and alarm output can be set separately for the left and right detection areas. The sensor can differentiate between large and small objects within the detection area, reducing false activations and ensuring genuine intruder detection.



Individual detection area and sensitivity setting

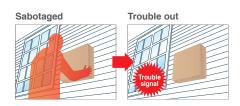
Both left and right detection ranges can be independently adjusted. (2.5 to 12 m in 5 steps)





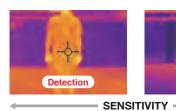
IR digital anti-masking function

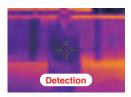
Active IR anti-masking detects when the lens surface has been covered, blocked or painted.



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.





Normal			
Normal	Normal	Normal	
Low	Mid	High	

Extreme			
Extreme	Extreme	Extreme	
Low	Mid	High	

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



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



Secure

Flat profile supported by an internal honeycomb structure ensures durability.



Optional colours for faceplate covers allow for more discrete installations



A sense of security, designed for you

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

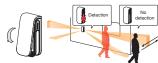




All the components needed for the sensor's adjustment and settings are in blue for ease of installation.



Easy to adjust detection angle



Back tamper

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



Automatic walk test mode

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

Product Features

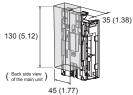
Battery life for the battery-operated models

Model	BXS-R		BXS-RAM	
Interval (sec.)	120	5	120	5
Approx.years	5	3.5	5	3.5
	3	2	3	2
	4	2.5	4	2.5

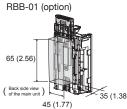
Battery type	
CR123A (3 V DC, 1300 mAh)	
CR2 (3 V DC, 750 mAh)	
1/2 AA (3 V DC, 1000 mAh)	

Calculations based on : Single type battery, no power sharing with transmitter, LED OFF and Anti-masking ON.

Wireless transmitter and battery



Battery box



Battery box (RBB-01)



Battery not included. CR123A x 3 (3.0 V DC) CR2 x 3 (3.0 V DC) 1/2AA x 3 (3.6 V DC) 1/2AA x 6 (7.2 V DC x 3)
*3.6 V DC 1/2 AA battery in series.

EOL module socket (BXS-ST,AM only)

Optional EOL (End of line) resistor modules are available.

SHIELD housing

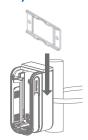
IP55 protection UV resistant ASA body







Pole mount plate (option)



Suitable for a metal band up to 23 mm (1 inch) in width

Versatile design



Black cover / black body



White cover / black body



Silver cover / black body



White cover / white body



Web based manual for wired models http://navi.optex.net/manual/50155





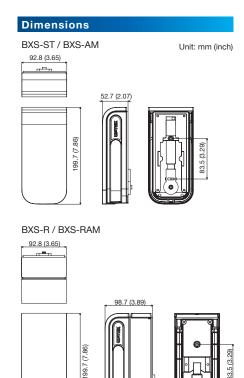


Web based manual for battery operated models http://navi.optex.net/manual/50157





Coverage Side view Top view Unit: m (ft.) 2.5 m (8 ft) TO WALL 0° 3.5 m (12 ft) 10.0 12.0 (33) (40) 12.0 10.0 (40) (33) 3.5 m (21) 12.0 10.0 5.0 0 5.0 10.0 12.0 AWAY WALL 6.0 m (20 ft) 12.0 10.0 (40) (33) 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



Options PLUG-IN EOL BXS Pole mount plate BXS Face cover BXS Back box BXS Back box Cap BATTERY BOX (PEU) (White / Silver / Black) (White / Black) (White / Silver / Black) (RBB-01) Metal band: 23 mm or less in width

Model	BXS-ST	BXS-AM	BXS-R	BXS-RAM	
Detection method					
Detection metriod	Passive infrared 24 m (80'); 12 m (40') on each side,		Passive infrared 24 m (80') ; 12 m (40') on each side,		
Coverage	4 zones; 2 zones on each side, 180°narrow		* * * * * * * * * * * * * * * * * * * *		
PIR distance settings			4 zones ; 2 zones on each side, 180°narrow 2.5, 3.5, 6, 8.5, 12 m		
First distance settings	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		
Detectoble aread	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)		
0 ""	,	Normal ; 2.0°C (3.6°F) at 0.6 m/s		Normal ; 2.0°C (3.6°F) at 0.6 m/s	
Sensitivity	•	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 1		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.		
, nam output (i i)	[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.		
riam output (L)	[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.		
ramper output	open when face cover, main	unit or base unit is removed	ramper output is shared with trouble output.		
	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 detection	
	(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		[1] Connector for POWER and ALARM (R), [2] Connector for ALARM (L), [3] 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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