





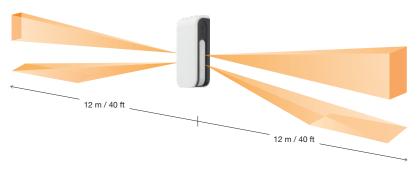


SHIELD: the new shape of security

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



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.



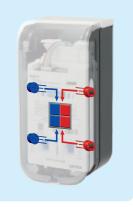




BRYCO

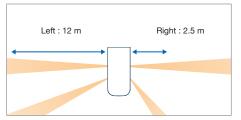
4 PIR technology

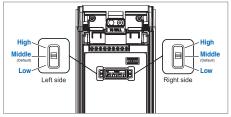
The detection range, sensitivity and alarm output can be set separately for the left and right detection areas. The sensor can differentiate between large and small objects within the detection area, reducing false activations and ensuring genuine intruder detection.



Individual detection area and sensitivity setting

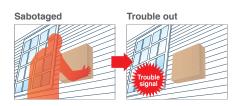
Both left and right detection ranges can be independently adjusted. (2.5 to 12 m in 5 steps)





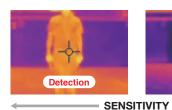
IR digital anti-masking function

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



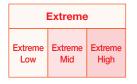
Extreme high detection mode

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	



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 A sense of security, designed for you





Flat profile supported by an internal honeycomb structure ensures durability.



Optional colours for faceplate covers allow for more discrete installations



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



Blue Touch™

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

Walk test mode will time out after three minutes

and the setting will return to "normal mode".



Easy to adjust detection angle



Back tamper

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



Product Features

Automatic walk test mode

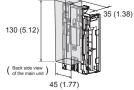
Battery life for the battery-operated models

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

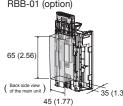
Battery type	
CR123A (3 V DC, 1300 mAh)	
CR2 (3 V DC, 750 mAh)	
1/2 AA (3 V DC, 1000 mAh)	

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





Battery box RBB-01 (option)



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





UV protection

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







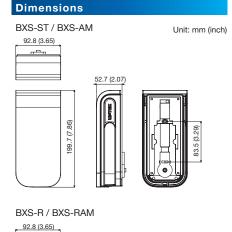
Web based manual for battery operated models http://navi.optex.net/manual/50157







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



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

199.7 (7.86)	98.7 (3.89)	88.56.299
199]	

Model	BXS-ST	BXS-AM	BXS-R	BXS-RAM	
Detection method	Passive infrared		Passive infrared		
0	24 m (80'); 12 m (40') on each side,		24 m (80'); 12 m (40') on each side,		
Coverage	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		
	TO WALL: 0° angled forward		TO WALL: 0° angled forward		
Detection angle from wall	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)		
Normal ; 2.0°C (3.6°F) at 0.6 m/s		.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	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.		
Alami output (h)	[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.		
Alami 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		
Tompor output	N.C. 28 V DC	N.C. 28 V DC 0.1 A max.		Tamper output is shared with trouble output.	
Tamper output	open when face cover, main	unit or base unit is removed	lamper 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 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		[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.

<sup>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.</sup>



OPTEX CO.,LTD. (JAPAN)

www.optex.net

OPTEX INC. / AMERICAS HQ (U.S.)

www.optexamerica.com

OPTEX DO BRASIL LTDA. (Brazil) www.optex.net/br/es/sec

OPTEX (EUROPE) LTD. / EMEA HQ (U.K.) www.optex-europe.com

OPTEX TECHNOLOGIES B.V. (The Netherlands) www.optex.eu

OPTEX SECURITY SAS (France) www.optex-security.com

OPTEX SECURITY Sp.z o.o. (Poland) www.optex.com.pl

OPTEX PINNACLE INDIA, PVT., LTD. (India) www.optex.net/in/en/sec

OPTEX KOREA CO.,LTD. (Korea) www.optexkorea.com

OPTEX (DONGGUAN) CO.,LTD. SHANGHAI OFFICE (China) www.optexchina.com

OPTEX (Thailand) CO., LTD. (Thailand)