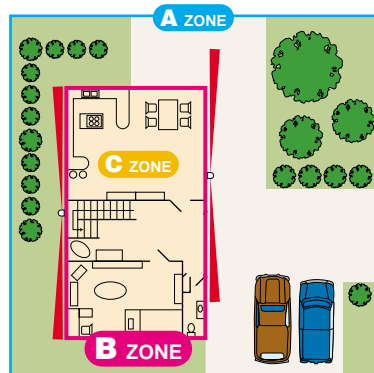# BOUNDARY GARD™
BX-80N

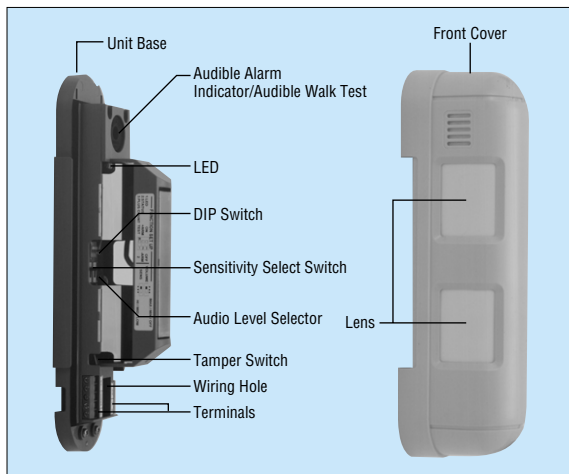## ALARMS BEFORE A BURGLAR BREAKS-IN!

Outdoor PIR Protection that covers a building's perimeter: the BX-80N's long, narrow detection area comes from the center point, covering both sides.
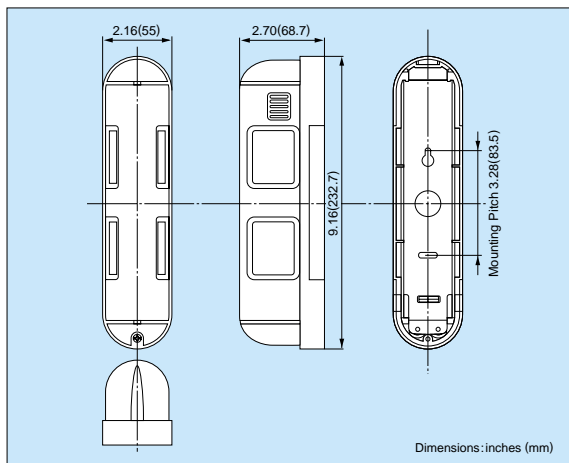
The BX-80N creates a multi-layered, horizontal barrier that detects intruders and sounds the alarm before they actually break in. Just one BX-80N can protect a long area, because it is installed in the center of the detection area and protects on both sides. BOUNDARY GARD™ makes you feel secure in knowing your building is well guarded.

BOUNDARY GUARD™
BX-80N

- Unit Base
- Audible Alarm Indicator/Audible Walk Test
- LED
- DIP Switch
- Sensitivity Select Switch
- Audio Level Selector
- Tamper Switch
- Wiring Hole
- Terminals
- Front Cover
- Lens

FEATURES

■ 80ft.-Long Range Detection
Optex's advanced PIR technology creates a narrow, 80ft.-long detection area that protects wide horizontal areas, such as a building's perimeter.

● Limited Detection Range Function
The detection range of the BX-80N can be adjusted to avoid detecting unwanted objects.

● Size-Judging Function
The BX-80N has a Layered Detection Pattern that discriminates between large and small objects in the detection area. Only when both the upper and lower detection layers detect movement, does the BX-80N generate an alarm.

■ Easy Installation
Convenient and simple to install, the BX-80N is mounted in the center of the detection area and protects both sides. Since there's no need to align transmitters and receivers, one person can install the BX-80N quickly and easily.
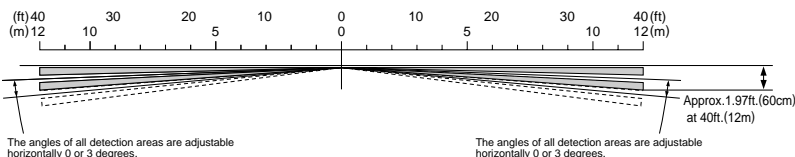
■ Alarm Indicator
An audible alarm indicator on the BX-80N deters would-be intruders from continuing their break-in attempt.
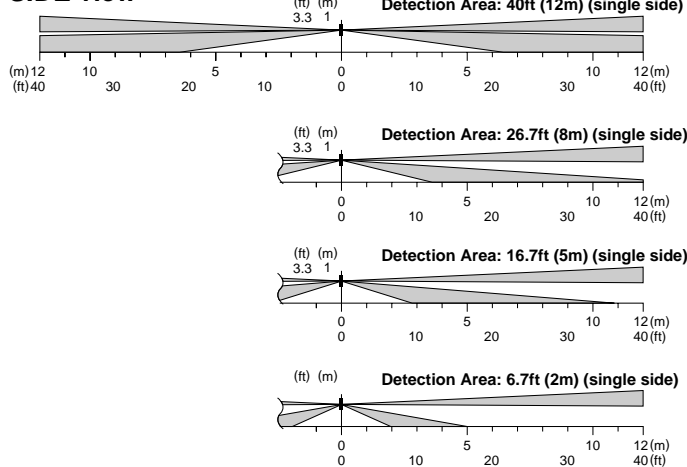
■ Attractive Slender Design
Its smart, stylish design blends in well with any type of architecture.

DIMENSIONS

2.16(55)   2.70(68.7)   9.16(232.7)   Mounting Pitch 3.28(83.5)

Dimensions : inches (mm)

SPECIFICATIONS

Model	BX-80N
Detection Method	Passive Infrared
Coverage	80ft (24m) (40ft [12m] on each side)
Detection Zones	4 zones (2 zones on each side)
Sensitivity	3˚F (1.6˚C) at 2ft/sec. (0.6m/sec.)
Detectable Speed	1 ~ 5ft/sec. (0.3 ~ 1.5m/sec.)
Power Input	10 ~ 28VDC
Current Draw	Normal 28mA Max. 38mA
Alarm Period	2.0 ± 1.0 sec.
Relay Output	2 Relay Outputs N.O. and N.C. 28 VDC 0.2A (Max.) each
Tamper Switch	N.C. Opens when cover removed
Test Mode	ON or OFF
Warm-up Period	Approx. 45 sec. (LED blinks)
Volume of Audible Alarm Indicator	Approx. 70dB (at 1 meter distance)
LED Indicator	LED is blinking during warm-up period, Alarm condition
Operating Temperature	-4˚F~ +122˚F (-20˚C ~ +50˚C)
Environment Humidity	95% (Max.)
RF Interference	No Alarm 20V/m
Mounting	Wall (Indoor/Outdoor)
Mounting Height	2.7 ~ 4ft (0.8 ~ 1.2m)
Weight	14oz (400g)
IP Rating	IP55
Accessories	M4 Mount screws x 20 x 2

DETECTION PATTERNS

TOP view
(ft)40 30 20 10 0 10 20 30 40 (ft)
(m)12 10 5 0 5 10 12(m)

Approx.1.97ft.(60cm) at 40ft.(12m)

The angles of all detection areas are adjustable horizontally 0 or 3 degrees.

The angles of all detection areas are adjustable horizontally 0 or 3 degrees.

SIDE view

Detection Area: 40ft (12m) (single side)
(ft) (m) 3.3 1
(m)12 10 5 0 5 10 12(m)
(ft)40 30 20 10 0 10 20 30 40(ft)

Detection Area: 26.7ft (8m) (single side)
(ft) (m) 3.3 1
0 5 10 12(m)
0 10 20 30 40(ft)

Detection Area: 16.7ft (5m) (single side)
(ft) (m) 3.3 1
0 5 10 12(m)
0 10 20 30 40(ft)

Detection Area: 6.7ft (2m) (single side)
(ft) (m)
0 5 10 12(m)
0 10 20 30 40(ft)

OPTIONS

■ METAL GUARD : MG-1
Helps to protect the unit from tampering or vandalism.

* Specifications and design are subject to change without prior notice.
NOTE: This unit is designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot assume responsibility for theft or damages, should it occur.

No.75051-01-5130-0005