Introducing the BX Shield



BX SHIELD series
Boundary outdoor detector

For buildings, perimeter and approach

- Intelligent 12m curtain detection in two directions (24m total)
- Individual detection area setting (2 zones)
- Easy to install and set up (wired or wireless)
- Designed with facia which can be painted/dipped

Models

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

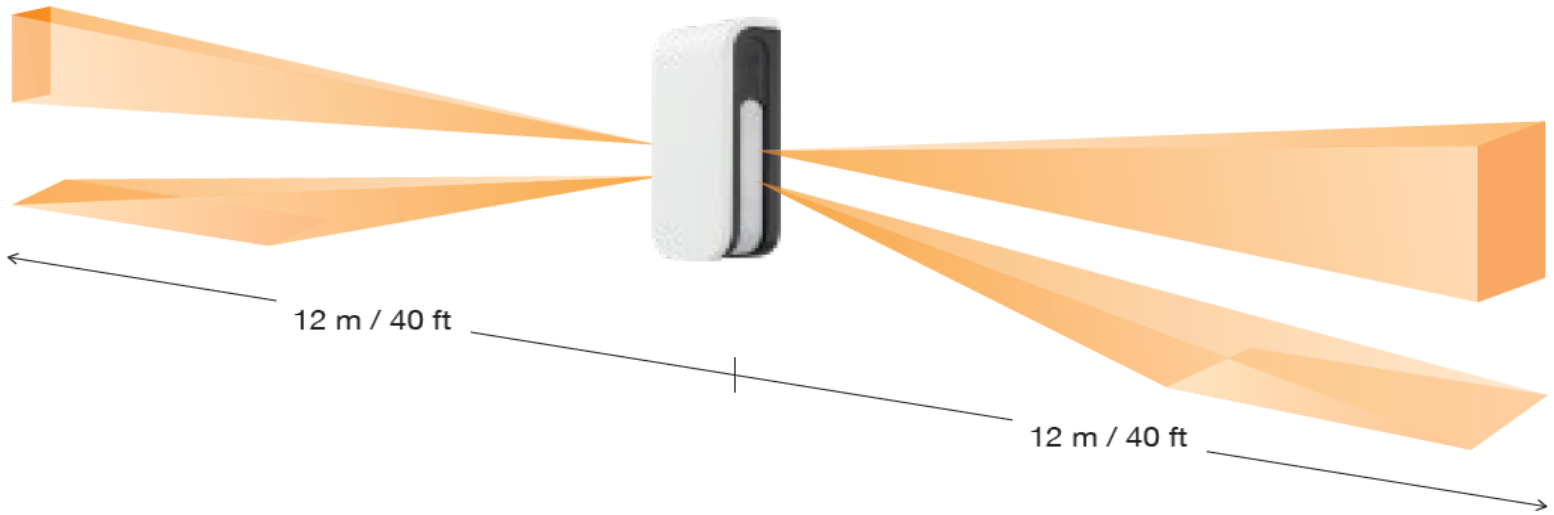
Black and white models

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

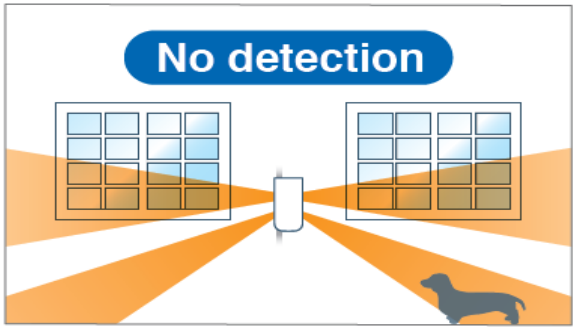
BXS-ST (W)
BXS-AM (W)
BXS-R (W)
BXS-RAM (W)

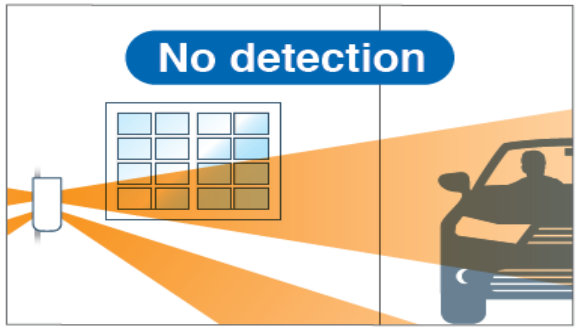


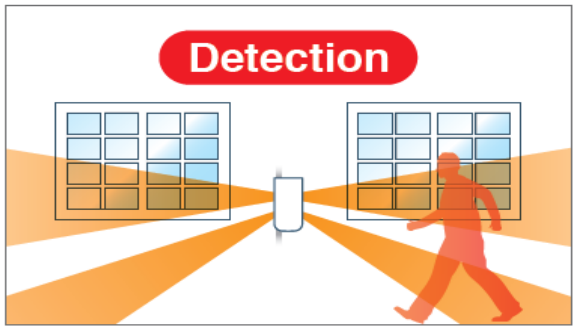


AND logic function to reduce false alarms

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



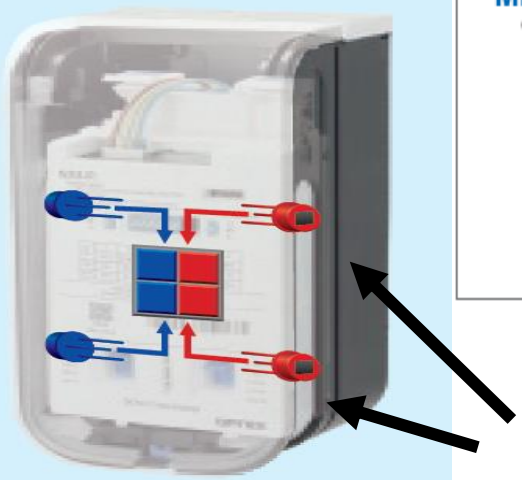


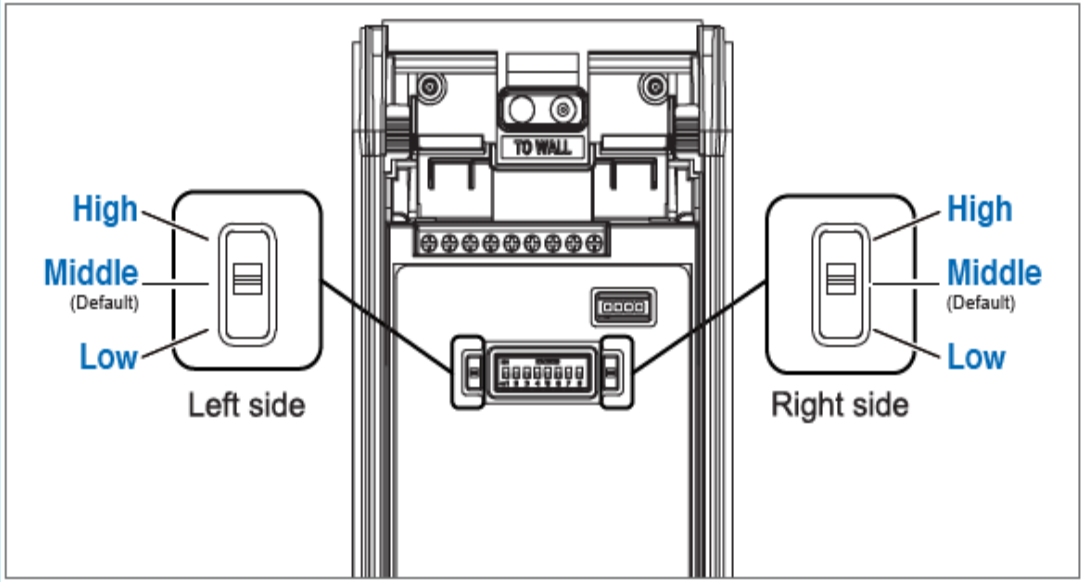


Two relay outputs and separate sens adjustment

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.



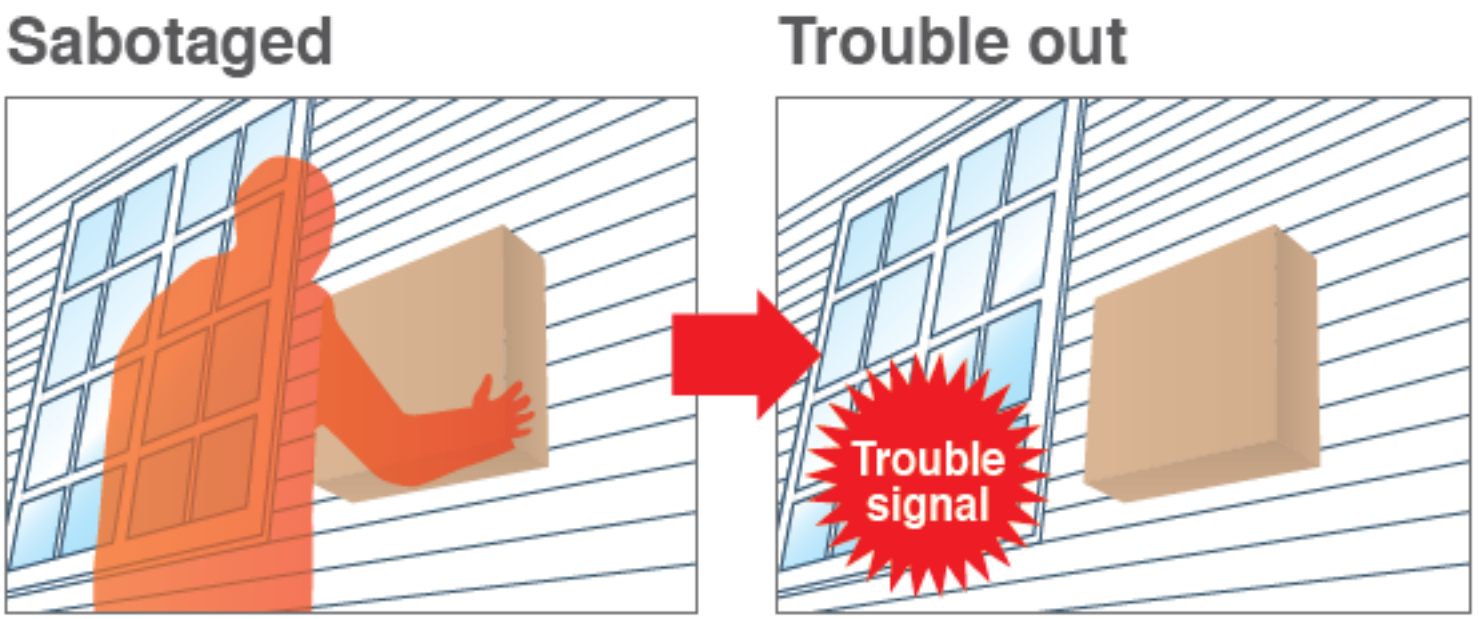


Four Pyro sensors

New Anti Masking

IR digital anti-masking function

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



New Extreme Mode

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

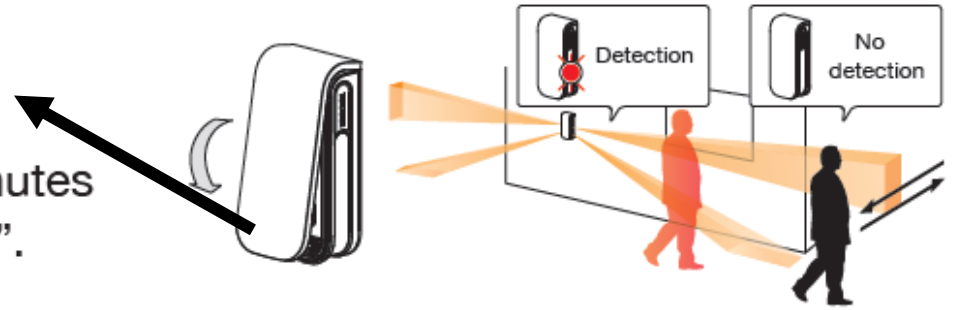
Normal		
Normal Low	Normal Mid	Normal High

Extreme		
Extreme Low	Extreme Mid	Extreme High

Added

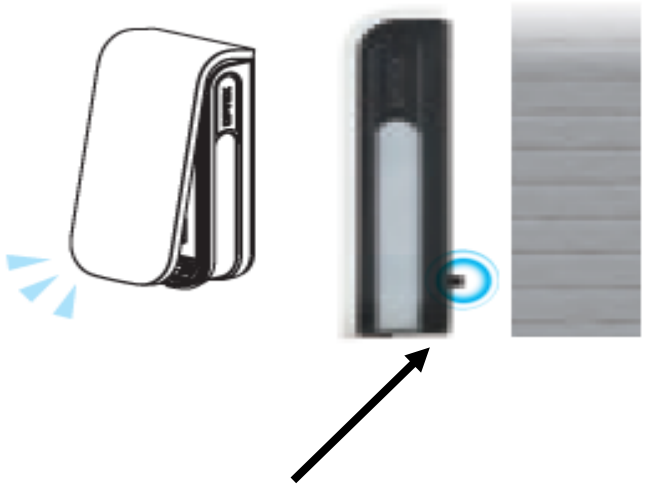
Automatic walk test mode

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



Back tamper

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



Battery Life

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

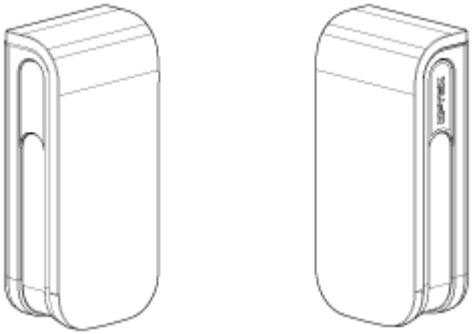
Battery type
CR123A (3 V DC, 1300 mAh)
CR2 (3 V DC, 750 mAh)
1/2 AA (3 V DC, 1000 mAh)

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

Battery box (RBB-01)

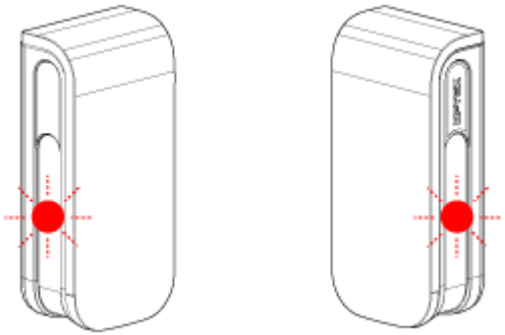


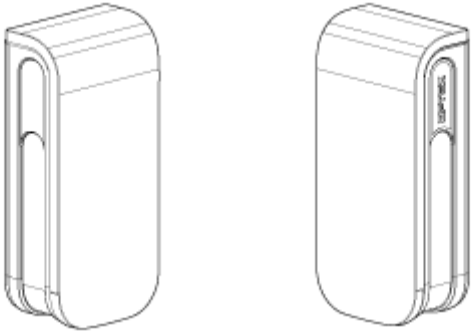
LED modes



Power Up

Detection !





Anti Masking

All New QR code scan for Automated manuals

OPTEX Sensing Innovation

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

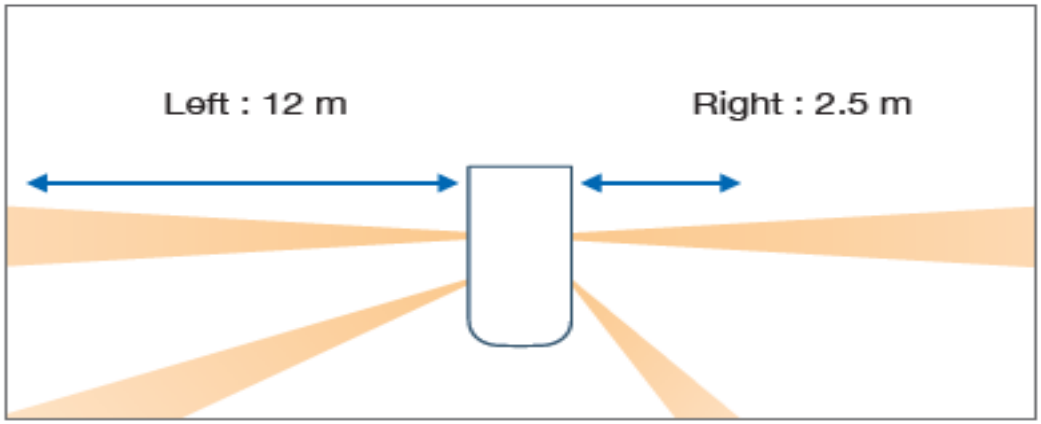


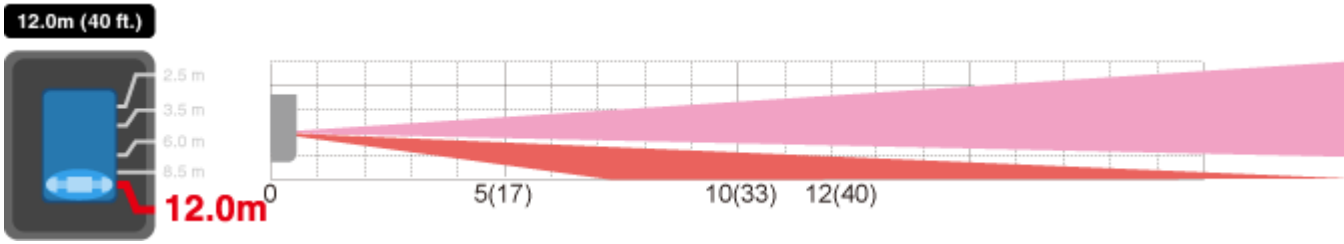
http://navi.optex.net/manual/50155/en/

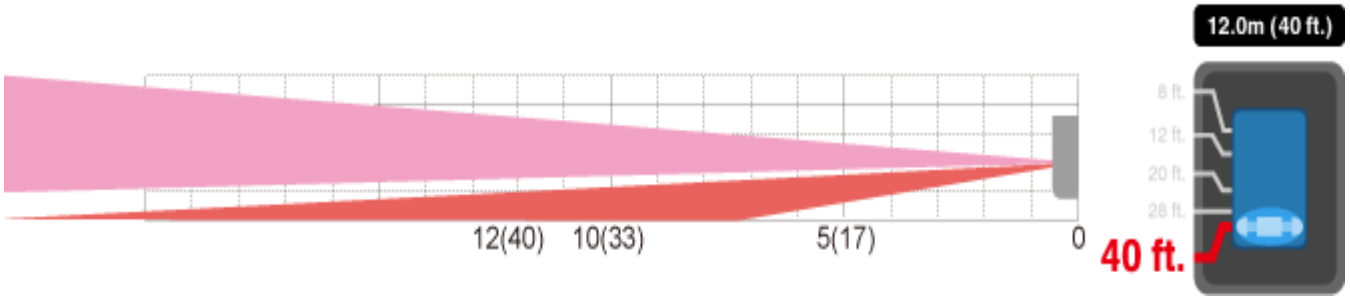
Web based manual
for battery operated models
http://navi.optex.net/manual/50157



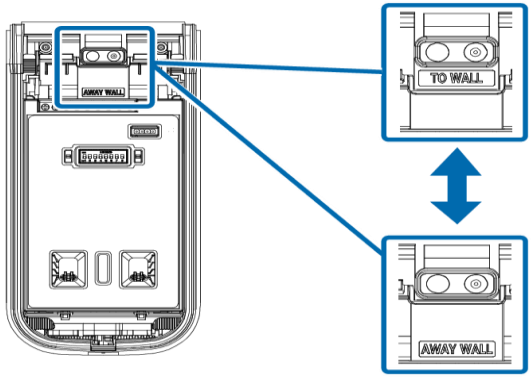
Vertical Adjustment



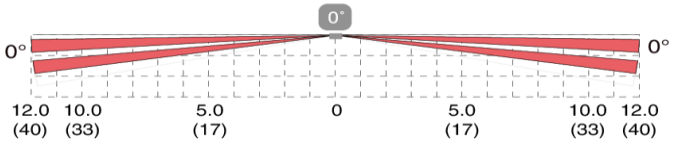




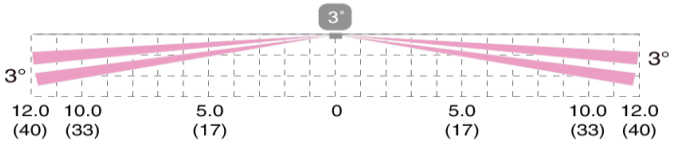
Horizontal Adjustment

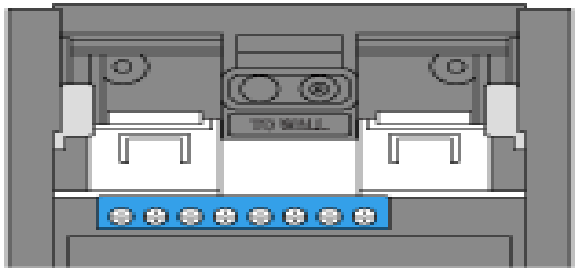


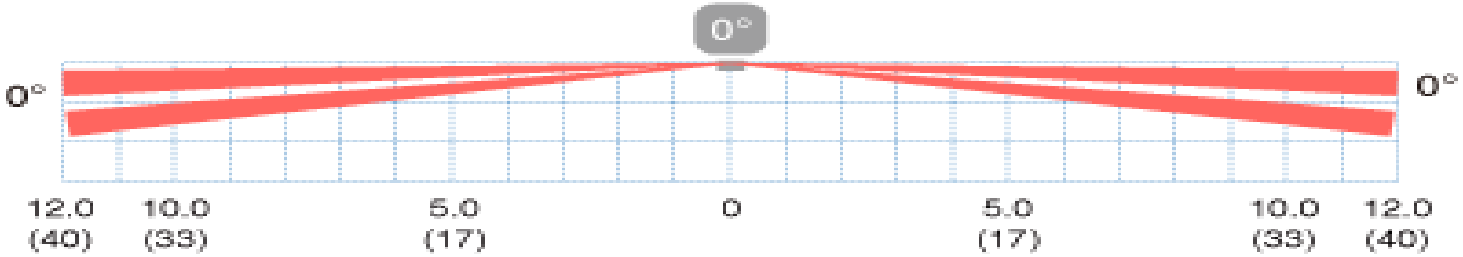
TO WALL



AWAY WALL





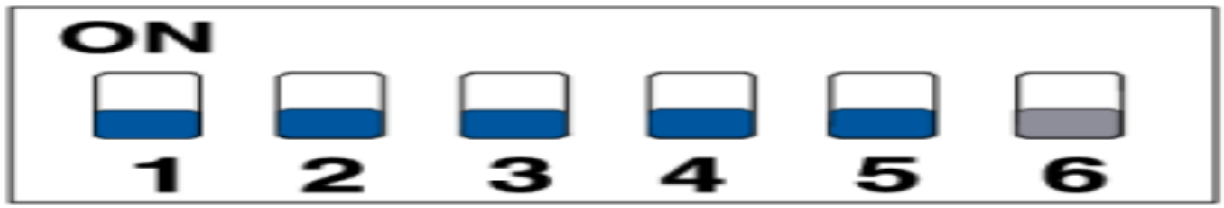


Replacement Lens









OPTEX
Sensing Innovation

❶LED

ON: LED is activated according to the detector's status.

OFF: LED is not activated except during warm-up and walk test.

❷Alarm output type

ON: Alarm (L) and (R) = N.O. (Normally Open)

OFF: Alarm (L) and (R) = N.C. (Normally closed)

❸Individual outputs

ON: Alarm (L) and (R) output alarm signals individually without affecting each other.

OFF: Alarm (L) and (R) output alarm signals at the same time by either detection alone.

Individual outputs ON/OFF by DIP SW No.3

❹PIR Extreme High (Left)

ON: PIR sensitivity of the Left detection area = Extreme high.

OFF: Extreme OFF.

❺PIR Extreme High (Right)

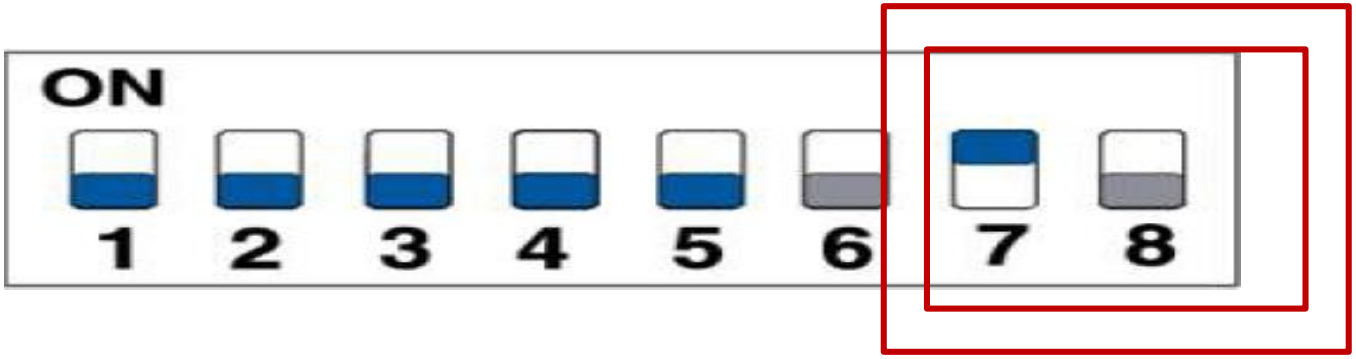
ON: PIR sensitivity of the Right detection area = Extreme high.

OFF: Extreme OFF.

PIR Extreme High ON/OFF by DIP SW No.4 & 5

❻Future use

BXS-AM



6 Future use

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7 Anti-masking

ON: Anti-masking ON

OFF: Anti-masking OFF

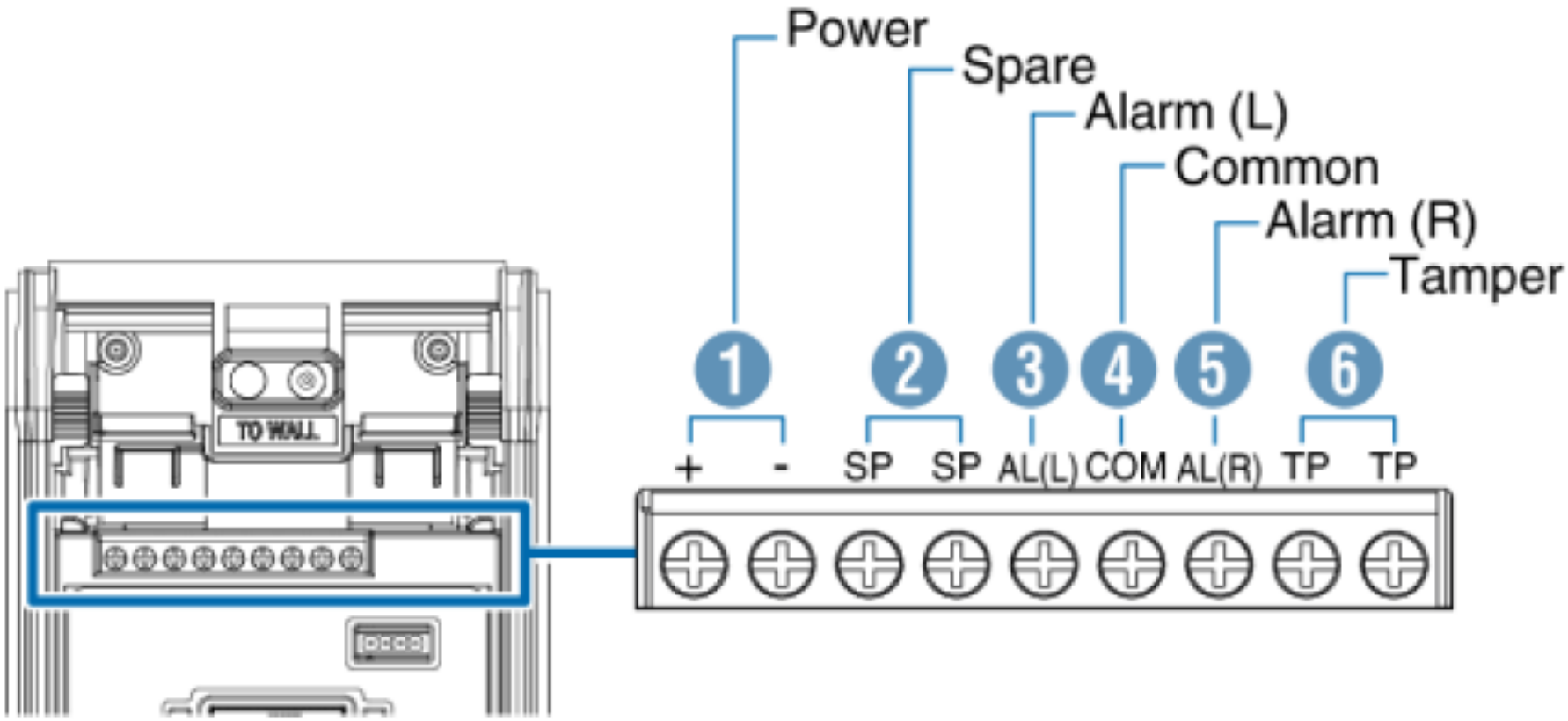
When the lens is masked over 20 seconds, the detector is in masking condition. After 3 minutes, Trouble output is generated.

8 Future use

BXS-ST

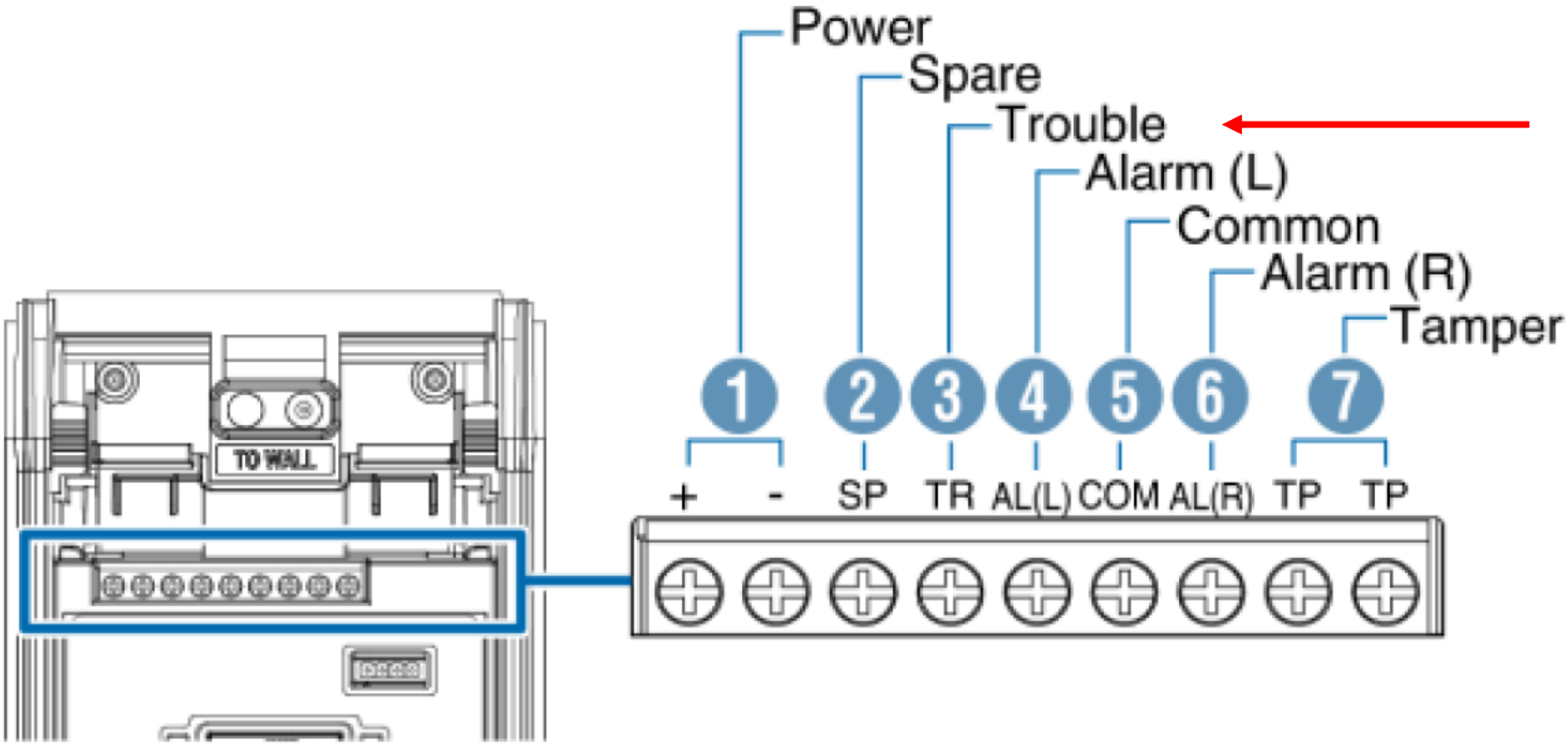
Terminals

BXS-ST



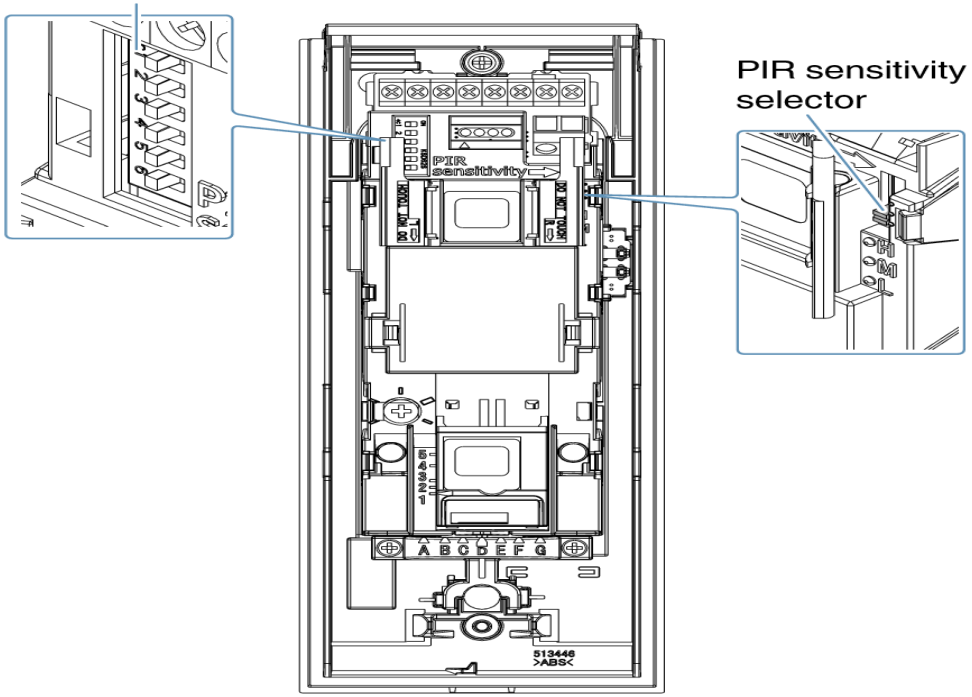
BXS-AM

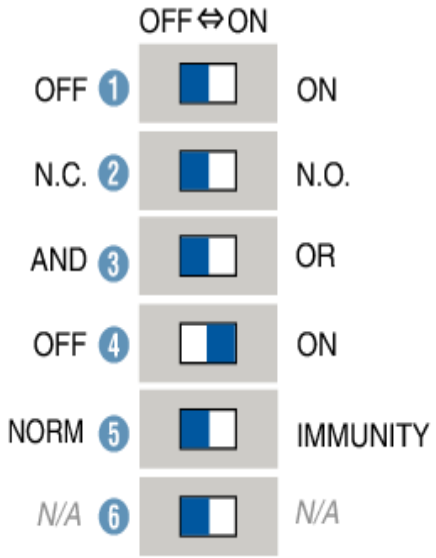
BXS-AM


Power
Spare
Trouble
Alarm (L)
Common
Alarm (R)
Tamper
1
2
3
4
5
6
7
+
-
SP
TR
AL(L)
COM
AL(R)
TP
TP
TO WALL

	OFF⇔ON	
OFF 1		ON
N.C. 2		N.O.
AND 3		OR
OFF 4		ON
NORM 5		IMMUNITY
N/A 6		*N/A*

DIP switch settings





1 LED

OFF: LED is not activated except during warm-up and walk test.

ON: LED is activated according to the detector's status.

2 Alarm

N.C.: Normally closed.

N.O.: Normally open.

3 AUX input

AND: AND inverter. Both the detection AND AUX input occur within 60 seconds, it activates the alarm.

OR: OR inverter. Either the detection OR AUX input activates the alarm.

CAUTION

In OR mode, AUX input terminal must be connected to the N.C. device. If it is kept open, alarm condition is continuing.

4 Anti-masking

OFF: Anti-masking OFF

ON: Anti-masking ON

When the lens is masked over 20 seconds, the detector is in masking condition. After 3 minutes, Trouble output is generated.

5 Microwave immunity

NORM: It is used under normal condition.

IMMUNITY: It is used under harsh environment.

6 Future use
