

# DUAL ZONE OUTDOOR PIR

**MS-12TE**

(Dual Zone : Variable Angle up to 90 degrees)



**MS-12FE**

(2 Dual Zones : Variable Angle up to 180 degrees)



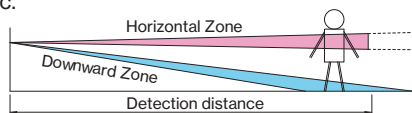
with optional white lens fitted

**DUAL ZONE system reduces false alarms, making outdoor use more reliable !**

**DUAL ZONE system**

This sensor is equipped with a DUAL ZONE system which initiates an alarm only when detection occurs in both horizontal and downward zones simultaneously.

No alarm signal is given if only one zone is activated by small animals, vehicles etc.



**180 degree wide angle coverage (Only applicable to MS-12FE)**

180 degree coverage detection is possible by using both upper and lower sensors in "OR" detection mode.

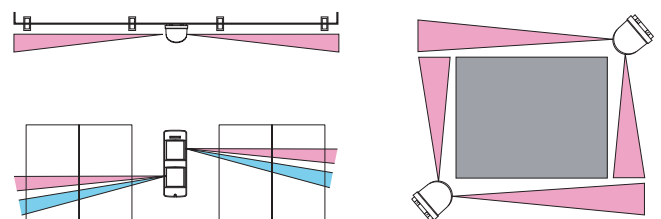
**Rain Proof Housing**

Rain-proof structure facilitates outdoor installation. Various mounting position such as wall and pole can be chosen.

**Various detection patterns**

Perimeter, window or wall detection can be made by adjusting detection zone with area masking sheet.

MS-12FE equipped with two sensors can cover two perimeters or windows by itself.



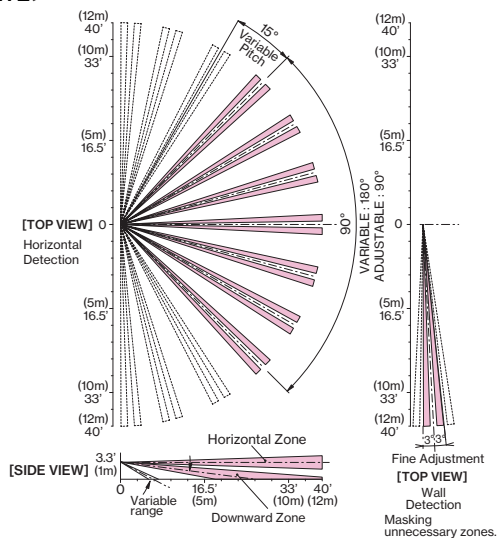
**Sensitivity adjustment**

Sensitivity can be adjusted between 30% and 170%.

# DUAL ZONE OUTDOOR PIR

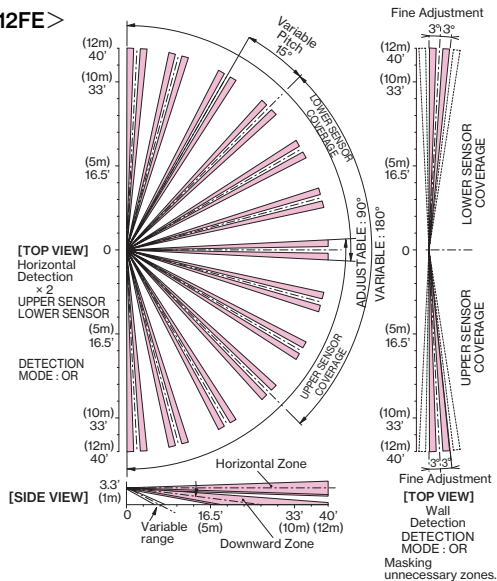
## DETECTION AREA

### <MS-12TE>



Detection distance is set by adjusting the angle of downward zone.  
Adjustable range 6.6' (2m) to 40' (12m). [10 ranges]

### <MS-12FE>

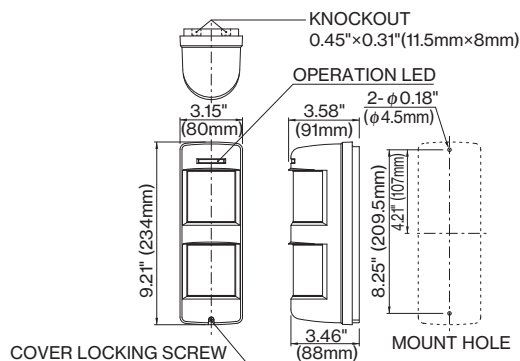


Detection distance is set by adjusting the angle of downward zone.  
Adjustable range 6.6' (2m) to 40' (12m). [10 ranges]

## SPECIFICATIONS

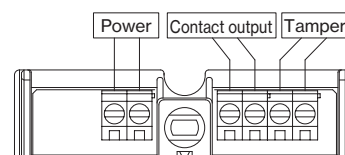
Model	MS-12TE	MS-12FE
Detection system	Passive infrared	
Coverage	When horizontal detection Angle : 90° Detection distance : 40' (12m) Horizontal zone : 7 zones Downward zone : 7 zones	2sets of MS-12TE sensor
Coverage adjustment	Horizontal : ±90° Detection distance : 6.6' to 40' (2 to 12m) (By adjusting vertical angle of downward zone)	
Supply voltage	12 to 28V DC (non-polarity)	
Current consumption	35mA MAX.	40mA MAX.
Alarm output	Dry contact relay output N.C./N.O. selectable Contact capacity : 30V (AC · DC), 0.25A MAX. (Resistive load) Contact operation : Detection time + off delay(2sec)	
Tamper output	Dry contact relay output N.C. Contact capacity : 30V (AC/DC), 0.1A MAX. (Resistive load)	
Operation LED	Red LED Blinking at warming up (LED disabled) Lighting at alarm (LED disabled)	
Pulse count settings	once / three times (with a switch)	
Sensitivity adjustment	Approx. 30% (L) - Approx. 170% (H) (By potentiometer)	
Detection mode	AND / OR selectable	
Connection	Terminals	
Ambient temperature	-4°F to +122°F (-20°C to +50°C)	
Mounting position	Indoor / Outdoor	
Weight	13.7oz (390g)	16.5oz (470g)
Appearance	Body : AES resin/Lens : PE resin	
Accessory	Tapping screw : 2 Area masking sheet : 1	Tapping screw : 2 Area masking sheet : 2

## EXTERNAL DIMENSIONS



## TERMINAL CONFIGURATION

- 12V to 30VDC (Non Polarity)
- Power consumption  
35mA MAX (MS-12TE)  
40mA MAX (MS-12FE)



## OPTIONAL

- Wall mount attachment <BW-24>
- Pole attachment <BP-22>
- White lens

Please note : This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary or a crime preventing device. TAKEX is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation or improper maintenance.

# TAKEX

### In Japan

Takenaka Engineering Co., Ltd.  
83-1, Gojo-Dori, Sotokan Nishi-iru, Higashino,  
Yamashina-ku, Kyoto 607-8156, Japan  
Tel : 81-75-501-6651  
Fax : 81-75-593-3816

<https://www.takex-eng.co.jp/>

### In the U.S.

Takex America Inc.  
1810 Oakland Road, Ste F  
San Jose, CA 95131  
Tel : 408-747-0100 Main  
Fax : 408-734-1100 Fax

<https://www.takex.com>

### In Australia

Takex America Inc.  
4/15 Howleys Road, NottingHill,  
VIC,3168  
Tel : +61 (03) 9544-2477  
Fax : +61 (03) 9543-2342

<https://www.takex.com>

### In the U.K.

Takex Europe Ltd.  
Aviary Court, Wade Road,  
Basingstoke, Hampshire. RG24 8PE, U.K.  
Tel : (+44) 01256-475555  
Fax : (+44) 01256-466268

<https://www.takex.com>