

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)

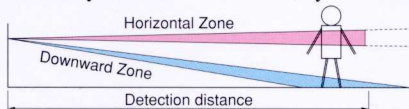


DUAL ZONE system reduces false alarms, making outdoor use more reliable !

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.

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.



Rain Proof Housing

Rain-proof structure facilitates outdoor installation.

Various mounting position such as wall and pole can be chosen.

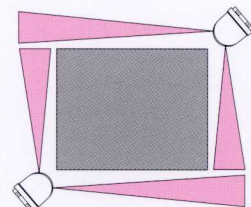
Day light

With the day light setting, alarm output can be controlled by the illuminance of the surrounding environment.

Operation during nighttime only is selectable.

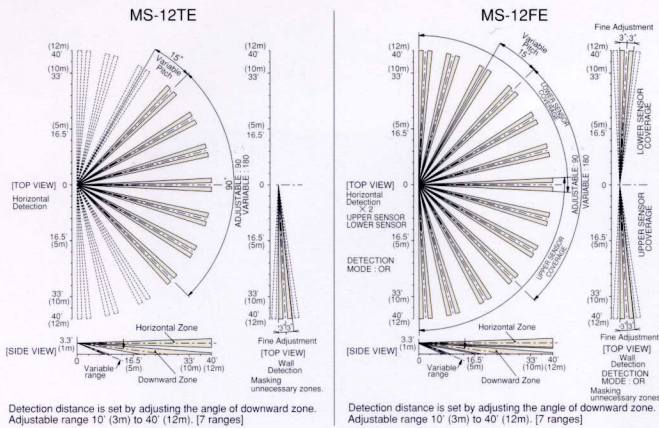
Sensitivity adjustment

Sensitivity can be adjusted between 30% and 170%.

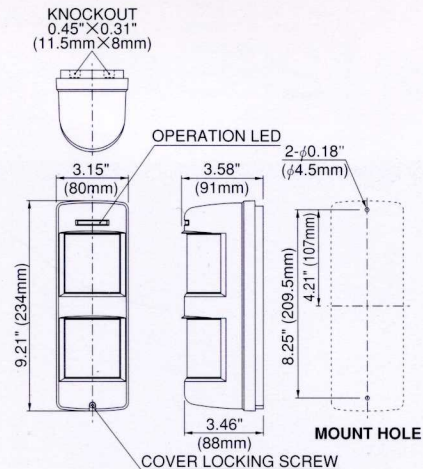


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DETECTION AREA

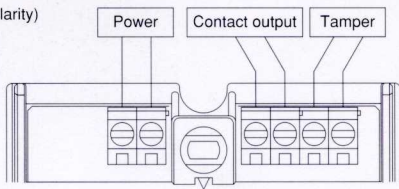


EXTERNAL DIMENSIONS



TERMINAL CONFIGURATION

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



◎WIRE SIZE : AWG24~AWG14
(0.2mm²~(2mm²))

Wiring distance

| Size of wire used | Power voltage | |
|------------------------------|---------------|----------------|
| | DC12V | DC24V |
| 0.3mm ² (φ0.65mm) | 820' (250m) | 8500' (2600m) |
| 0.5mm ² (φ0.8mm) | 1480' (450m) | 14100' (4300m) |
| 0.8mm ² (φ1.0mm) | 2300' (700m) | 21300' (6500m) |
| 1.2mm ² (φ1.25mm) | 3120' (950m) | 29500' (9000m) |

NOTE : 1) Maximum wiring distance when two or more sets are connected is the value above divided by number of sets.

2) The signal line can be wired to a distance of up to 3,000ft. (1,000m) with AWG 22 (dia. 0.65mm) telephone wire.

OPTIONAL

●Wall mount attachment
(BW-24)

●Pole attachment
(BP-22)

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 : 10' to 40' (3 to 12m) (By adjusting vertical angle of downward zone) | |
| Supply voltage | 12 to 30V 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), 0.5A MAX. (Resistive load) Contact operation : Detection time + off delay (2sec. -5min. approx.) | |
| Detection settings | Daylight : Night (10 lux) : Day and Night | |
| Tamper output | Dry contact relay output N/C Contact capacity : 30V (AC/DC), 0.5A MAX. (Resistive load) | |
| Operation LED | Red LED Blinking at warming up 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 (Height 31.50" to 47.24" (0.8m to 1.2m)) | |
| 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 |

Please note : This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary-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.

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