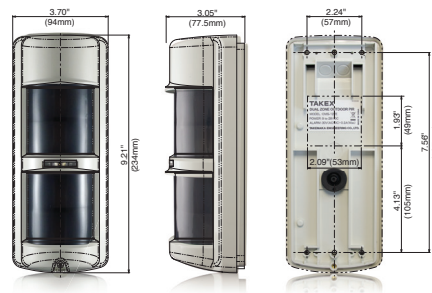




OMS-12FE

Up to 12m x 180° Dual-zone Outdoor PIR

The OMS-12FE uses our reliable dual-zone detection system to create 180 degrees of volumetric protection with a range of 3 to 12m. Equipped with 4 pyros, the detection field is divided into left and right zones which can be enabled/disabled as required for precise area control. The slim-profile housing features a back-tamper, and the clearly labelled option switches make installation a breeze.



What is this unit?

It is an external, weatherproof (IP54) Passive Infra-Red (PIR) Movement Detector.

Is there anything special about it?

Quite a bit, we think it is unique!! You probably know that some external PIRs have a reputation for generating 'false' or 'nuisance' alarms from pets and wildlife. The TAKEX 'dual-zone' detection system creates an extremely stable and reliable detection field perfect for use in environments where conventional PIRs would be a constant source of 'nuisance alarms'.

And that's not all...

It has a very wide angle of detection - 180°. Most other external PIRs have a 90° (or so) wide angle, or long-range narrow angle of detection. The OMS-12FE has a detection area of 180° x 3m - 12m (adjustable). For example, one OMS-12FE mounted flat on a wall offers a semi-circle of detection up to 12m distance. Two sensors mounted back-to-back on a post would give a full circle of detection up to 12m distance. It would be hard to sneak up on one of these!!

What if I need more than 90°, but not the full 180°?

No problem, the unit is supplied with a 'masking sheet' to disable unwanted zones. It also has 'pulse count' and sensitivity controls for precise area setting, as well as front and back-tamper facilities.

So, could it be mounted between two sets of windows to protect either side?

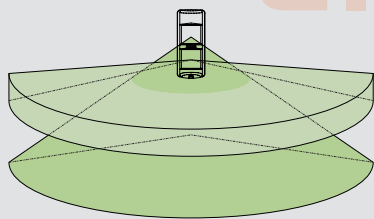
Yes, as well as ordinary space protection the OMS-12FE can be configured to look only to the left and right along walls.

It all sounds very useful - but if it is so new how can I be confident in its performance?

The OMS-12FE is just the latest in the TAKEX family of MS-12TE/FE (12VDC hardwired) and TX-114TR/FR (battery-powered for wireless use) external pet-tolerant PIRs which have successfully used the same detection principles for some years.

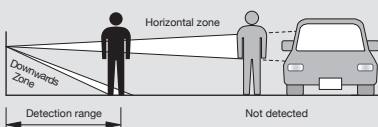
What can it be used for? What sort of applications?

For general security with intruder alarms, or reliable lighting control, or CCTV remote monitoring or camera activation and pre-set positioning. Anywhere that you would like to use a standard external PIR but are worried about the amount of false alarms caused by local wildlife.



180 degree field of view.

The sensor has a full 180 degree field of view giving an uncompromising detection field. This provides a comprehensive detection pattern without blind spots, ideal for intruder applications.

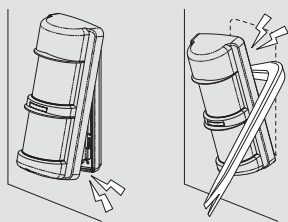


Dual-zone detection system.

Simultaneous activation across two detection fields. This revolutionary detection method is ideal for the challenging environment of an external installation. By detecting on two separate planes the sensor can accurately distinguish between smaller objects that cause nuisance alarms and true intrusion.

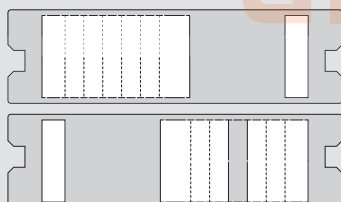
Wall detection.

24m dual-zone detection. Ideal for sensing along the immediate perimeter of the protected premises. This narrow detection option is perfect for confined and constrained areas where space is restricted.



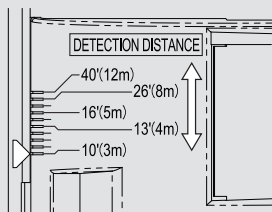
Front and rear tampers.

To ensure that the unit is not maliciously interfered with we have included both front and back tamper switches. This protects the device against attempts to remove the front cover, or to remove the unit from its mounted surface.



Area masking.

In an ideal installation the protected area will be clear but on occasions where an obstacle is present the area-masking sheet is employed. By simply removing the desired segments from the masking sheet the obstacle can be disregarded.

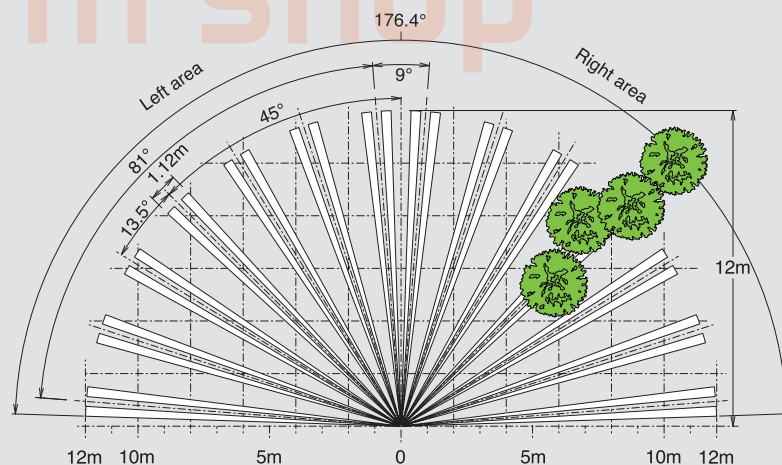


Precise distance control.

The detection distance can be accurately adjusted by changing the angle of the downward zone. This is essential when providing a stable detector, as a field that exceeds its boundary greatly increases the potential for false alarms.

Specifications.

Model	OMS-12FE
Detection system	Passive infrared
Coverage	When horizontal detection Angle : 180° Detection distance : 40' (12m) Horizontal zone : 14 zones Downward zone : 14 zones
Coverage adjustment	Horizontal : L/R 90° (selectable) Detection distance : 10'~40' (3m~12m) (By adjusting vertical angle of downward curtain)
Supply voltage	9 to 28V DC (non-polarity)
Current consumption	20mA MAX.
Alarm output	Dry contact relay output N.C./N.O. selectable * Contact capacity : 30V (AC/DC), 0.2A MAX. (Resistive load) * Contact operation : Detection time (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 warning up Lighting at alarm (LED disabled)
Counts selectable switch	1/2/3/4 times (with a switch)
Sensitivity adjustment	* Approx. 30% -Approx. 170% (By Potentiometer)
Connection	Terminals
Ambient temperature	-4° F to + 122° F (-20°C to + 50°C)
Mounting position	Indoor / Outdoor
Ingress protection	IP 54 (equivalent) (Wall Mount)
Weight	16.5oz (470g)
Appearance	Body : AES resin Lens : PE resin
Optional	Pole attachment : BP-32



OMS-12FE vs MS-12FE

Up to 180 degree coverage	Up to 180 degree coverage
Fixed sensor heads	Adjustable sensor heads
3-12m coverage	3-12m coverage (independent left/right control)
Enable/disable left or right zones	Rotating sensor heads for zone adjustment
9-28VDC	12-30VDC
20mA (max)	40mA (max)
NO/NC relay output	NO/NC relay output
Front and back tampers	Front tamper
Pulse count selectable: 1/2/3/4 times	Pulse count selectable: 1/3 times
	Day/night sensing
	2sec-5min adjustable relay timer
	AND/OR detection modes