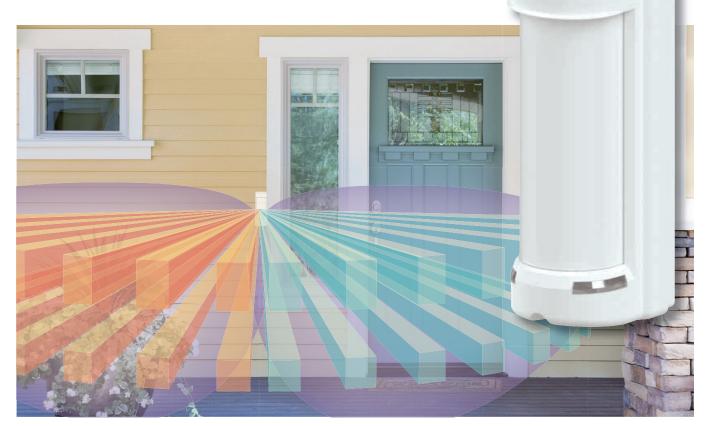
TAKEX

12m x 180° DUAL-ZONE OUTDOOR PIR

MX-12FAMD

SLIM DESIGN DUAL TECH 180° DETECTION

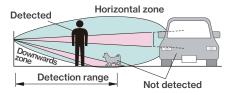
PIR + Microwave with Anti-Masking



Dual-zone detection system with Microwave reduces false alarms significantly for reliable outdoor protection

TRIPLE DETECTION SYSTEM ($2 \times PIR ZONE + MICROWAVE$)

Horizontal/downward zones and MW require simultaneous detection preventing nuisance alarms caused by small animals and passing vehicles.



180 DEGREE WIDE ANGLE COVERAGE

Up to 180° of complete coverage, with independent 2m - 12m adjustable protection distance for left and right sides for maximum installation versatility.

DUAL ALARM SIGNAL OUTPUTS

Choose between:

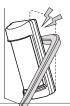
- individual alarm outputs per 90 degree left and right side
 Or a combined 180 degree output + external output for triggering CCTV or ancillary devices.

ANTI-MASKING

Protected by sophisticated Anti-Masking technology with near-lens awareness, designed to initiate an alarm if the device is compromised.

BACK TAMPER

Equipped with both front and back tampers to detect interference or attempted theft of the sensor any time of the day or night.



IMPROVED AREA MASKS

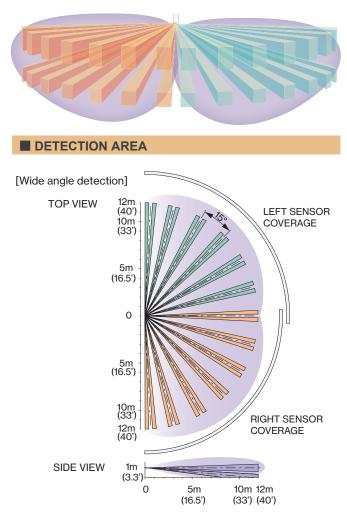
Durable area masks stored within the device allow the coverage pattern to be customised to specific site requirements.

STABILITY IN VARIOUS ENVIRONMENTS

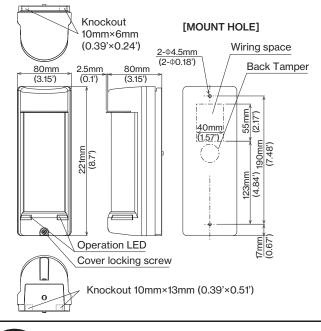
By combining multiple settings of the microwave sensor, pulse count and sensitivity adjustment, stable detection performance is achieved against various environments.

12m x 180° DUAL-ZONE OUTDOOR PIR

COVERAGE PATTERN



EXTERNAL DIMENSIONS



TAKENAKA ENGINEERING CO., LTD.

In the U.S.

Takex America Inc.

Tel: 408-747-0100

Fax: 408-734-1100

1810 Oakland Rd, Suite F,

San Jose, CA 95131, USA

https://www.takex.com

In Japan

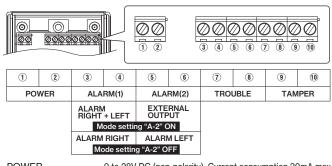
Takenaka Engineering Co., Ltd. 83-1, Gojo-Dori, Sotokan Nishi-iru, Higashino, Yamashina-ku, Kyoto 607-8156, Japan Tel: 81-75-501-6651

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

SPECIFICATIONS

| SFECIFICATIONS | | |
|---|---|---|
| Model | MX-12FAMD | |
| Detection system | Passive infrared and Microwave | |
| Microwave transmit frequency and power | 24.150 to 24.250GHz 12.7dBm e.i.r.p. | |
| Detection area | Horizontal detection Angle : 180°, Detection distance : 12m(40') Horizontal zone : 14 zones Downward zone : 14 zones | |
| PIR Area adjustment | Detection distance : 2 to 12m(10' to 40') [10 ranges] (by adjusting vertical angle of downward curtain) left and right adjustment individually possible | |
| Supply voltage | 9 to 28V DC (non-polarity) | |
| Current consumption | 40mA max. | |
| Alarm output (1) | ALARM RIGHT+LEFT | Contact capacity : 30V (AC/DC) 0.2A max. (Resistive load |
| | ALARM RIGHT | Contact operation : Detection time (+2sec.) |
| Alarm output (2) | ALARM LEFT | Dry contact relay output N.C./N.O. selectable • Contact capacity : 30V (AC/DC) 0.2A max. (Resistive load) • Contact operation : Detection time (+2sec.) |
| | EXTERNAL OUTPUT | Dry contact relay output N.O. • Contact capacity : 30V (AC/DC) 0.2A max. (Resistive load) • Contact operation : Detection time (+30sec. latch time) |
| Trouble output | Dry contact relay output N.C. Contact capacity : 30V (AC/DC) 0.2A max.(Resistive load) (Masking detection / Low supply voltage / Self diagonosis error) | |
| Tamper output | Dry contact relay output N.C. Contact capacity : 30V (AC/DC) 0.1A max.(Resistive load) (Cover tamper / Back tamper (when enabled)) | |
| Operation LED | Red LED • Warm-up (Blinking) • Alarm detection (Lights approx.2sec only for Walk test) • Low supply voltage (Blinking slowly) • Masking detection (Blinking rapidly) • Self diagonosis error (Lights continuously) • Microwave alarm detection (Lights max.2sec only for Walk test) | |
| Pulse count | 1 / 3 times (selectable with DIP switch) | |
| PIR sensitivity adjustment | 60/80/100/120% (selectable with DIP switch, left and right sensors individually) | |
| Microwave range adjustment | Short / Long (selectable with DIP switch, left and right sensors individually) | |
| Functions | Anti-masking, Microwave environment, Back tamper, Trouble alarm Low voltage monitoring, Anti-masking Environmental level | |
| Connection | Terminals | |
| Ambient temperature | -25°C to + 60°C (-13°F to + 140°F) | |
| Mounting position | Indoor / Outdoor | |
| Ingress protection | IP55 (Wall mount) | |
| Weight | 400g (14.2oz) | |
| Appearance | Body : resin (white) / Lens : resin (white) | |
| Optional | Pole attachment : BP-32 | |
| * Specifications and design are subject to change without prior notice. | | |

TERMINAL CONFIGURATION



POWER : 9 to 28V DC (non-polarity) Current consumption 30mA max. ALARM OUTPUT (1) : N.C./N.O. selectable, 30V (AC/DC) 0.2A max. (Resistive load) ALARM OUTPUT (2) : N.C./N.O. selectable, 30V (AC/DC) 0.2A max. (Resistive load) (For EXTERNAL OUTPUT : N.O. only)

TROUBLE OUTPUT : N.C. 30V (AC/DC) 0.2A max. (Resistive load) TAMPER OUTPUT : N.C. 30V (AC/DC) 0.1A max. (Resistive load)

OPTIONAL

Pole attachment (BP-32)



Please note: This sensor is designed to detect intrusion and flame 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.

In Australia **Takex America Inc.** 4/15 Howleys Road, Notting Hill, 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 2021-10