TAKEX MICROWAVE SENSOR MW-50L

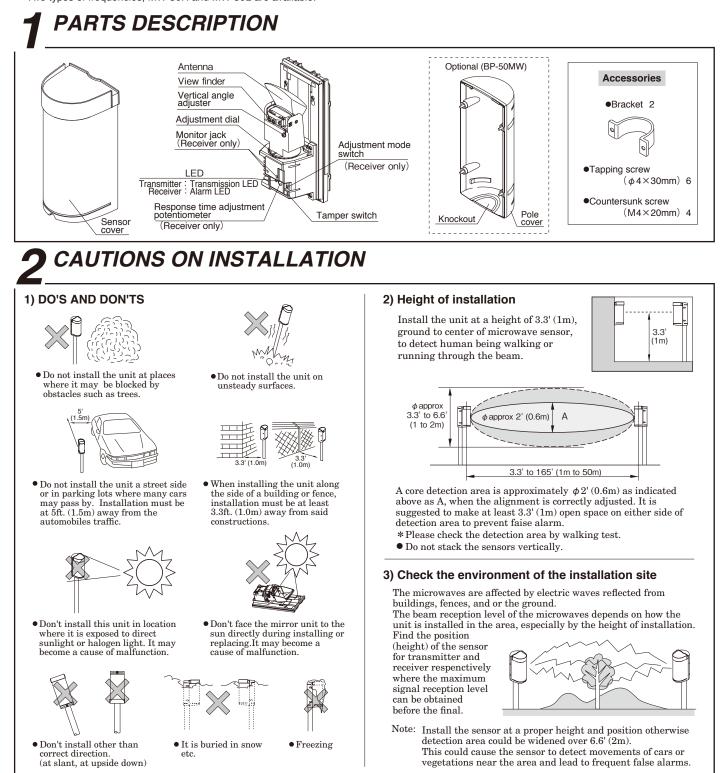
Instruction Manual

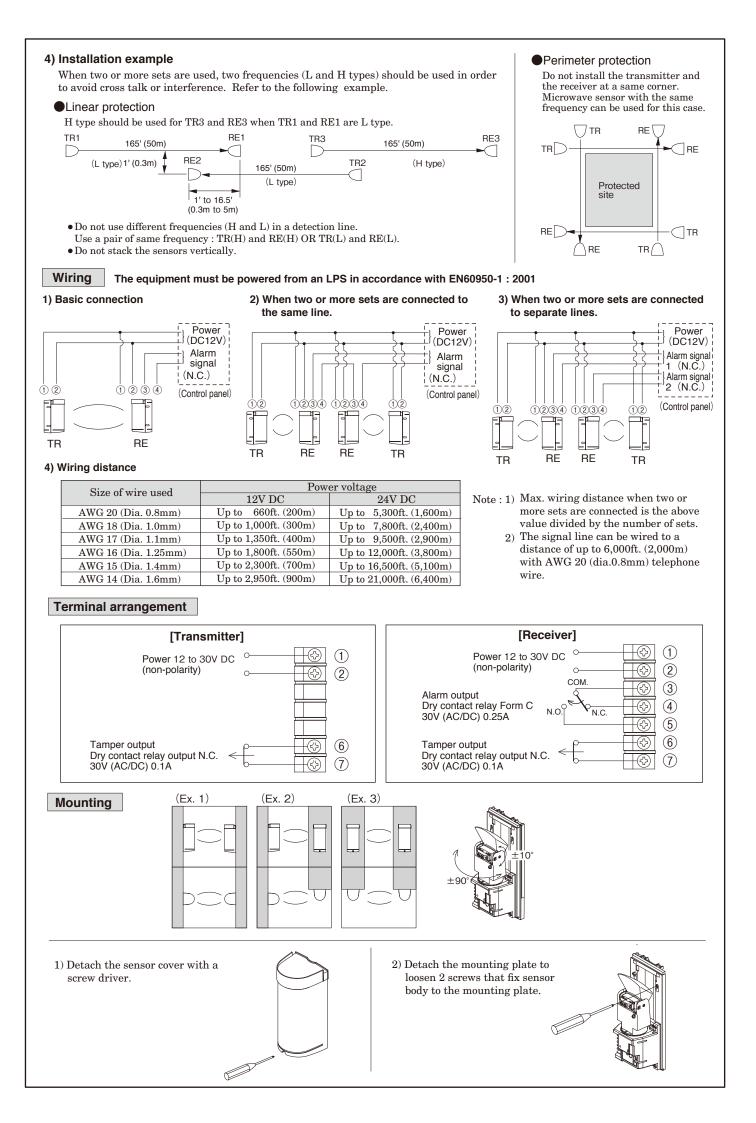
We appreciate your purchase of the TAKEX microwave sensor. This sensor will provide long and dependable service when properly installed. Please read this instruction manual carefully for correct and effective use.

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 loss caused by accident, theft, Acts of God (including inductive by lightnin surges), abuse, misuse, abnormal usage faulty installation or improper maintenance.

PRODUCT DESCRIPTION

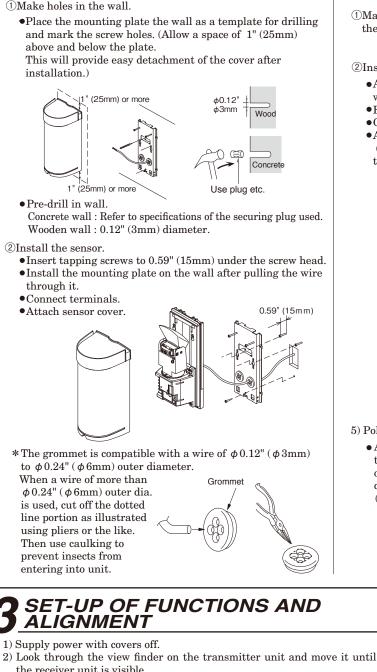
This Product consists of a transmitter which sends 24GHz band of microwave and a receiver which receives the beam. It will initiate an alarm signal when the receiver detects a drop in the beam reception level due to interruption of objects interrupt between the transmitter and receiver. Compared to a photoelectric beam, the wavelength of microwaves is extremely long, which prevent the sensor from being affected by weather such as torrential rainfall, snowfall, fog or frost especially during cold winters. Stable detection performance is possible. Two types of frequencies, MW-50L are available.





3) Wall mount

①Make holes in the wall.

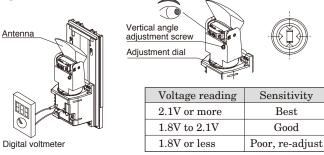


- the receiver unit is visible.
- Repeat the procedure on the receiver unit.
- 3) Set the adjustment mode switch on the receiver to "adjustment mode". Connect the digital volt meter to the monitor jack and check the monitor output voltage (beam reception level).

When the output voltage is low, adjust the installation height of the transmitter and receiver so that the output voltage will reach the highest level. (Make sure that the angle of the antenna does not change.) Note: Install the sensor at a proper height and position otherwise detection area could be widened over 6.6' (2m).

This could cause the sensor to detect movements of cars or vegetations near the area and lead to frequent false alarms.

4) After adjustment, make sure that the adjustment switch is set to "Operation mode".



3After adjustment, set the adjustment mode switch to "Operation mode".

4) Pole mount

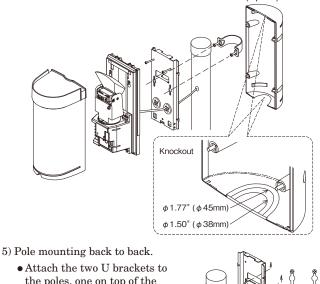
①Make a wiring hole in the pole. Pull the wire through wire.



(Option)

②Install sensor on the pole.

- •Attach the U brackets to pole and fix the mounting plate with screws.
- Fix the sensor the body to the mounting plate.
- Connect the terminals.
- •Attach the sensor and pole covers.
- (Break the knockouts on the cover and pole cover to adapt to pole's diameter and configuration.)



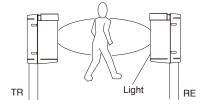
the poles, one on top of the other, facing opposite directions. (See illustration.)

OPERATION CHECK

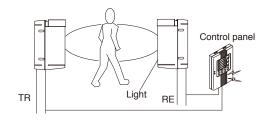
After the installation and angle adjustment are finished, test operation by performing a walking test throug walk testing the sensor. Two methods may be used.

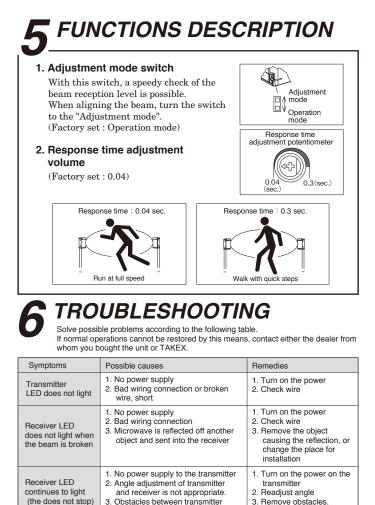
Note: When cover is attached, the sensor is switched to be in an operation mode automatically.

1) Check by alarm LED only.



2) Check by both the alarm LED and control panel

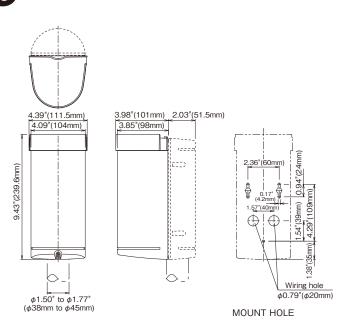




$\mathbf{7}$ SPECIFICATION

Туре	Microwave sensor
Model	MW-50L
Protection distance	3.3ft.(1m) to 165ft.(50m)
Max. arrival distance	Approx. 330ft. (100m)
Microwave	24.12GHz
Detection system	Microwave
Response time	0.04sec. to 0.3sec. (Variable using POT)
Alarm signal	Dry contact relay output 1C N.O. / N.C. COM. Contact action : Interruption time output Contact capacity : 30V (AC/DC) 0.25A or less
Supply voltage	12 to 30V DC
Power consumption	100mA • Transmitter : 50mA • Receiver : 50mA
Tamper signal	Dry contact output N.C. Contact capacity : 30V (AC/DC) 0.1A
Alarm LED (Receiver)	Red LED Lighting at alarm
Transmission LED (Transmitter)	Green LED Lighting at signal transmission
Functions	Monitor output, Adjustment mode switch
Weight	Transmitter 28.0oz (800g) Receiver 29.8oz (850g)
Appearance	Resin (Wine red)

S EXTERNAL DIMENSIONS



DAILY INSPECTIONS

Intermittent alarm

• To clean the device, use a soft, wet cloth and then wipe off any water drops

If the device is particularly dirty, dip the soft cloth in water that includes a weak neutral detergent. Wipe the device gently with the cloth, then wipe off any detergent that remains. • Do not use substances such as thinner or benzene.

(The plastic parts may deform, discolor or change their properties.) Periodically (approximutely weekly) confirm operation.

and receiver

1. Bad wiring connection

Change of supply voltage

3. Shading objects between the transmitter and receiver

4. A large electric noise source such

5. Installation height, installation site

the transmitter and receiver

as power machine is located near

or angle adjustment is inapporiate

Q SPECIAL NOTES

1 FCC

(1)FCC Regulation Statement : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures : -Reorient or relocate the receiving antenna. -Increase the separation between the equipment and receiver. -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/TV technician for help. WARNING : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. (2)RF Exposure Warning Statement : This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must be at least 20 cm from the user and must not be co-located or operating in conjunction with any other antenna or transmitter.

The information in this guide may change without notice. The manufacturer assumes no responsibility for any errors that may appear in this guide.

1. Check again

2. Stabilize supply voltage

3. Remove object the causing the shade

4. Change the place of

installation

5. Readjust

Limited Warranty :

TAKEX products are warranted to be free from defects in material and workmanship for 12 months from original date of shipment. Our warranty does not cover damage or failure caused by natural disasters, abuse, misuse, abnormal usage, faulty installation, improper maintenance or any repairs other than those provided by TAKEX. All implied warranties with respect to TAKEX, including implied warranties for merchantability and implied warranties for fitness, are limited in duration to 12 months from original date of shipment. During the Warranty Period, TAKEX will repair or replace, at its sole option, free of charge, any defective parts returned prepaid. Please provide the model number of the products, original date of shipment and nature of difficulty being experienced. There will be charges rendered for product repairs made after our Warranty Period has expired.

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