

# SENSOR SWITCH



**MS-100E (12VDC)**

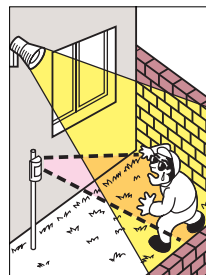


**Sensor switch for outdoor/indoor use.**

**Variable multi-area system enables selection of 4 detection patterns.**

MS-100E is a passive infrared sensor which is designed to detect far-infrared rays (= body temperature) emitted from human body. POSSIBLE TO USE OUTDOORS as well as indoors. For wide applications as a switch to control illuminator or various home automation apparatus.

**APPLICATION**



●To CONTROL ILLUMINATOR

**Advanced variable multi-area system**

Combination of newly developed variable multi-area system and wide adjustment feature enables 4 detection patterns to fit for various installation sites.

**To activate illuminator/surveillance camera**

Usable as a switch to activate surveillance camera as well as to turn outdoor/indoor illumination ON/OFF for energy saving or convenient illumination.  
(Dry contact relay : N.C./N.O. selectable)

**Weather-proof**

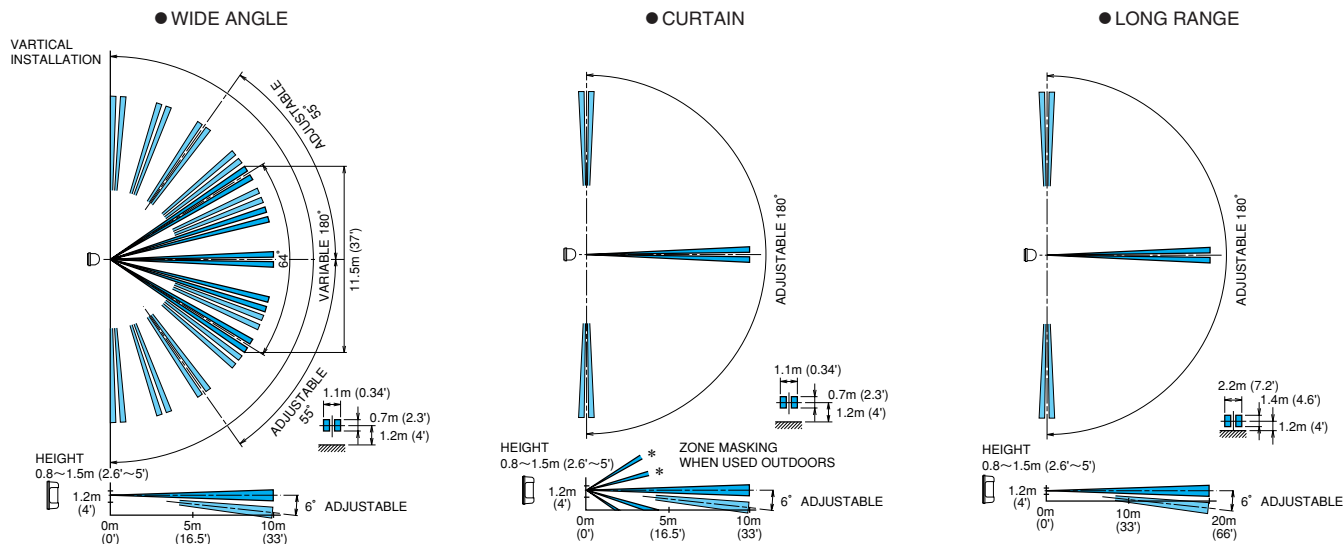
Rain-proof allows outdoor/semi-outdoor installation as well as indoor installation.  
Ceiling/wall/pole mount available.

**SPECIFICATIONS**

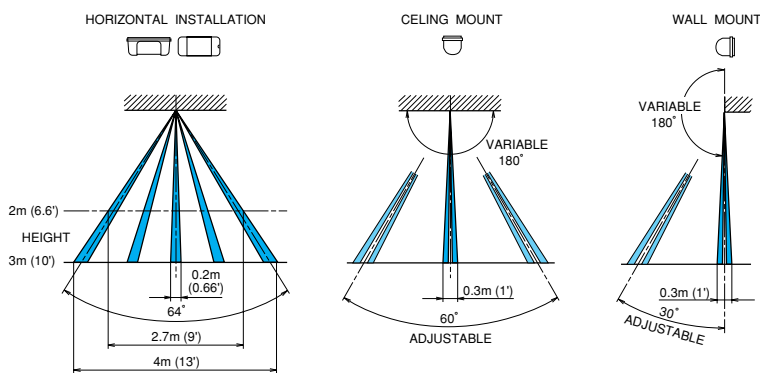
Product name	Sensor switch
Model	MS-100E
Detection system	Passive infrared
Coverage	Vertical Installation ● Wide Angle [Max. 33'(10m)] (5 pairs) ● Curtain [Max. 33'(10m)] (5 pairs) ● Long Range [Max. 66'(20m)] (1 pair) Horizontal Installation ● Vertical Curtain [Max. 10'(3m)] (5 pairs)
Supply voltage	10.5VDC to 30VDC (Non polarity)
Power consumption	30mA or less
Output signal	Dry contact relay output Form N.C./N.O. selectable ● Contact capacity ; 30V (AC·DC), 0.5A MAX. (Resistance load) ● Contact operation ; Detection time + off delay (Approx. 2 sec.~approx. 5 min.)
Tamper signal	Dry contact relay output N.C. ● Contact capacity ; 30V (AC·DC), 2A MAX. (Resistance load)
Adjustment Volumes	Delay time ● Approx. 2 sec.~Approx. 5 min. (Detection time + off delay) Day light ● Approx. 10 lux~∞ (Regardless illuminance) PIR sensitivity ● Approx. 30% (L)~Approx. 170% (H) (100% set at factory)
Contact changeover	Form N.C./N.O. changeover (by switch)
Ambient temperature	-4°F to 122°F (-20°C to +50°C)
Mounting position	Vertical Installation ● Indoor / outdoor (pole/wall) Horizontal Installation ● Indoor / semi outdoor (wall / ceiling)
Operation LED	Light at the detection time + off delay
Connection	Terminals
Weight	7.7 oz (220g)
Appearance	Cover : PE resin (white) Body : AES resin (white)
Optional	Ceiling / wall mount attachment (BCW-401) Wall mount fittings (BW-14)

# SENSOR SWITCH

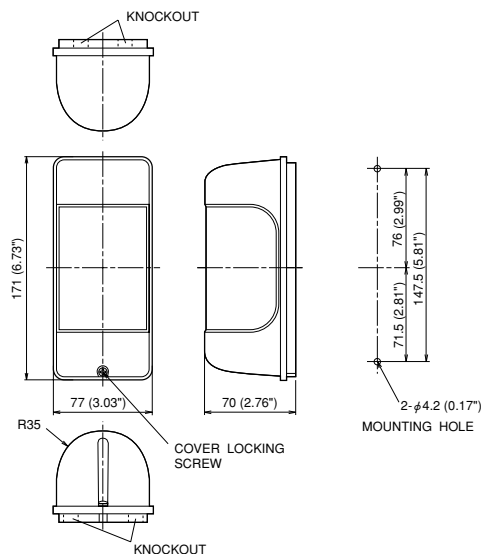
## PATTERN



## CURTAIN



## EXTERNAL DIMENSIONS unit : mm (inch)



## WIRING



## OPTIONAL ACCESSORY

### WALL MOUNT FITTINGS <BW-14>



### CEILING/WALL MOUNT ATTACHMENT <BCW-401>

BW-14  
IS REQUIRED



**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-sotokan,  
Higashino, Yamashina-ku,  
Kyoto 607-8156, Japan  
Tel : 81-75-501-6651  
Fax: 81-75-593-3816  
<http://www.takex-eng.co.jp/>

### In the U.S.

**Takex America Inc.**  
1330, Orleans Drive,  
Sunnyvale,  
CA 94089, U.S.A.  
Tel : 408-747-0100  
Fax: 408-734-1100  
<http://www.takex.com>

### In Australia

**Takex America Inc.**  
Unit 16, 35 Garden Road,  
Clayton 3168, Victoria,  
Australia  
Tel : 03-9546-0533  
Fax: 03-9547-9450

**Takex America Inc.**  
Brisbane office : 1/50 Logan  
Road, Woolloongabba  
Queensland  
4102, Australia  
Tel : 07-3891-3344  
Fax: 07-3891-3355

### In the U.K.

**Takex Europe Ltd.**  
Takex House, Aviary Court,  
Wade Road, Basingstoke,  
Hampshire. RG24 8PE, U.K.  
Tel : (+44)01256-475555  
Fax: (+44)01256-466268  
<http://www.takexeuropa.com>