

Adjustment Manual for Acumotion Prototype

1. Parts list

1)Acumotion: pc

2)3 conductor

Cable: pc (5ft)

3)Antenna: pc



There are two type of the Antenna, such as Wide field which has 3 chips and Narrow Field which has 6 chips.

2. Function of LED

Sensor Status	Power ON & No Detection	Microwave detects	Infrared detects	Microwave & Infrared detect
LED Status	Green	Orange	Red	Off



3. Adjustment

1) **Lever for mounting angle of entire sensor**

This white lever is to adjust the angle of the entire sensor and will be used to adjust the field of the around threshold for Infrared. When you move this white lever to upside, sensing field will be move to close side of the door. 9 positions adjustment is available. (-4 ~ 4 deg.)

2) **Angle adjustment for Microwave sensor**

This part is to adjust the angle of microwave head. 11 positions adjustment is available. (15 ~ 45 deg.)

3) Depth adjustment lever of Infrared sensor

This slidable lever is to adjust the depth of infrared field.

Lever position [1] : Depth of infrared field 1 ft

Lever position [2] : Depth of infrared field 2 ft

Lever position [3] : Depth of infrared field 3 ft

When you need the enough depth of microwave field, please adjust this lever ,there is no detection zone between Infrared beams and microwave beams.

4) Dip Switch 1 (8 positons)

This switches are for Infrared sensor.

Switch Number	Function	Adustment		
1, 2	Mutual Interference Prevention Mode	1	2	
		ON	ON	Mode A
		ON	OFF	Mode B
		OFF	ON	Mode C
		OFF	OFF	Mode D
3, 4	Sensitivity& Presence time adjustment	3	4	
		ON	ON	High Sensitivity 15 sec
		ON	OFF	High Sensitivity sec
		OFF	ON	Low Sensitivity 30 sec
		OFF	OFF	Snow Mode 15 sec
5, 6, 7, 8	Adjustment of width			
		ON	ON	No Cancellation
		OFF	ON	One spot of left outside is cancelled.
		OFF	OFF	Two spots of left outside are cancelled.
		ON	OFF	Three spots of left outside are cancelled.
		ON	ON	No Cancellation
		ON	OFF	One spot of Right outside is cancelled.
		OFF	OFF	Two spots of Right outside are cancelled.
		OFF	ON	Three spots of Right outside are cancelled.

5) Dip Switch 2 (4 positions)

This switches for the microwave sensor.

Switch Number	Function	Adjustment		
1	Bi/Unidirectional	ON		Uni-directional
		OFF		Bi-directional
2, 3	Sensitivity of Frequency Noise			
		ON	ON	Standard
		ON	OFF	High
		OFF	ON	Noise prevention Mode 1
		OFF	OFF	Noise prevention Mode 2
4	Infrared ON/OFF	ON		Effective
		OFF		Invalid

6) Sensitivity of power for Microwave sensor (Potentiometer)

10 positions adjustment of sensitivity is available by a potentiometer.

CW: High Sensitivity, CCW: Low Sensitivity High

4. Wiring

Red: 12VDC Input

Black: 12VDC Ground & Output Common

White: Out put (DC30V/0.1A max)

Compliance Statement (Part 15.19)

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions;

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Warning (Part 15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure (OET Bulletin 65)

To comply with FCC RF exposure requirements for mobile transmitting device, this transmitter should only be used or installed at locations where there is at least 20 cm(7.78 inches) separation distance between the antenna and all person.