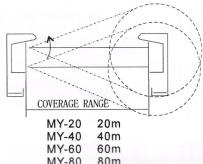


ACTIVE INFRARED SENSOR

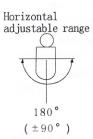
INSTALLATION INSTRUCTION

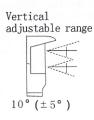
(Outdoor 20m) MY-20 MY-40 (Outdoor 40m) MY-60 (Outdoor 60m) (Outdoor 80m) MY-80 MY-100 (Outdoor 100m)

COVER AND ADJUSTABLE RANGE



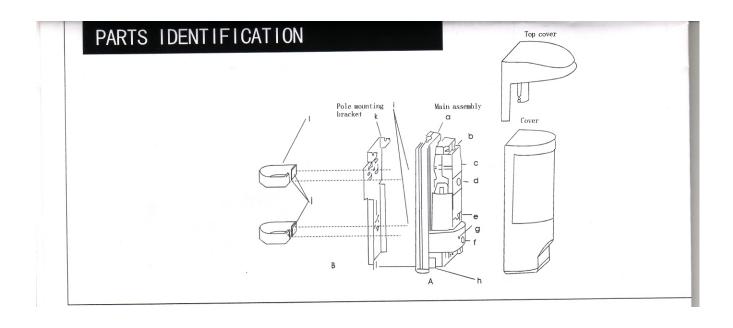






SPECIFICATIONS

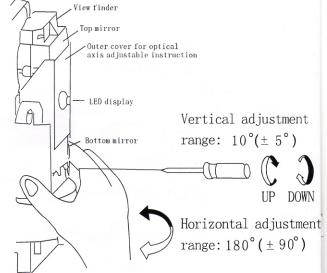
Mod	del	MY-20	MY-40	MY-60	MY-80	MY-100
Cove	rage	20m	40m	60m	80m	100m
Sens	ing Type			Pulse infrare	d	
Interruption '	Time For Alarm		50msec to 500m	sec(variable a	djustment)	
Aları	n Output			a SPDT Dry Cont 0.2A(resistive		or NO.)
Alarm	Duration		180	2sec ±1sec		
Adjustable Al	lignment Range	Horiz	ontal: 180°(±	.90°) V	ertical: 10°(± 5°)
Suppl	y Voltage		DC 11V to	26V (no polarit	ty)	
Indicator LED	Transmitter		No	rmal: Green LEI) on	
Indicator LED	Receiver	Nor	mal: Green LED	on	Alarm: Red	LED on
Power Consumption	Transmitter	10mA Max.	10mA Max.	17mA Max.	17mA Max.	17mA Max.
(At 12v DC Input)	Receiver	27mA Max.	27mA Max.	27mA Max.	27mA Max.	27mA Max.
Using	Location			Outdoor		
Ambient T	emperature		777740	-25°C to + 55°	Ċ	
Conr	nection			Terminal		
Mounting		Wall mount or pole mount				
Case Meterial		Black poly carboneit				
Weight			690g (Trans	smitter: 340g,	Receiver: 3	50g)



OPTICAL ALIGNMENT INSTALLATIONS

- 1. It is important that the units correctly transmit and receive; the performance of the installation depends on it. These instructions apply to both the transmitter and reciver in any installation. Each unit must be aligned to "see" the other.
- 2. Confirm the wiring before power-up.
- 3. Adjust the mirror units of the transmitter and receiver to see each other. Look through the viewfinder. Proper alignment should result in the viewfinder centering circle in the middle of the opposite unit.





Note:Don't cover the mirror units by hand (example). If you cover the mirror, you won't be able to correctly adjust the units.

MONITOR TERMINALS INSTRUCTION

To verify the direction of optical axis by measuring the voltage on the jacks located on receiver. Adjust the direction of optical axis to achieve the best sensitivity. Then verify optical alignment after installing the case onto unit.

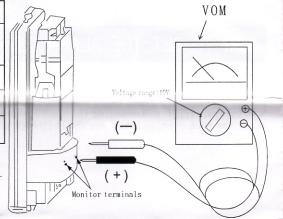
It is more reliable to put a VOM into the monitor terminals on the mian assembly. When using the VOM, put the tester"+"into the "+"terminal of the main assembly, and the tester"-"into the "-"terminal of the mian assembly. Adjust the transmitter and receiver until the monitor output voltage is maximum

Please refer to the relationship of Sensitivity and Monitor Output Voltage as following.

(Receiver)		Monitor output voltage				
Indicator LED	State	MY-20	MY-40	MY-60	MY-80	MY-100
Green LED	Excellent	7.0V Min.	6.5V Min.	7.0V Min.	7.0V Min.	7.0V Min.
Gin	Good	5.5Y~7.0V	4.0V~6.5V	5.51~7.01	5. 0V~7: 0V	5. 0V~7. 0V
Green LED Flash	Realign	5.5V Wax.	4. OV Max.	5.5V Max.	5. OV Max.	5. OV Max.

Cover one side of the top of the mirror units and cover one side of the bottom of the mirror units; then adjust the alignment until the monitor voltage of both sides is the same.

After adjustment, put the cover on the main assembly and tighten the screw.

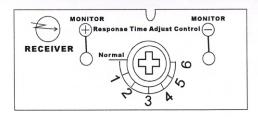




This adjustment is for coping with the environment variable from 50msec to 500msec. Usually, use the standard position (Normal).

Adjust the alarm duration control to higher positions (refer to the chart above) where birds or flying objects may break the beams.

Normal Position 50msec.);{c	Fast running speed (35km/h)
No. 1 Position 100msec	O sal	Running speed (15km/h)
No. 2 Position 150msec.		Jogging speed (8km/h)
No. 3 Position 200msec.		Fast walking speed (4km/h)
No. 4 Position 300msec.		Average walking speed (3km/h)
No. 5 Position 400msec.		Leisurely walking speed (2km / h)
No. 6 Position 500msec.		Slow walking speed (1km/h)



Caution: A target moving faster than the maximum speed setting will not be detected.

Metal mounting bracket. Straps for pole mounting

Mounting screw for pole mounting strap

Mounting screw for pole mount bracket

Metal mounting bracket

1: Straps for pole mounting

Main assembly A:

Main assembly a:

b: View finder Mirror units

c:

d: Indicator LED e: Adjustment screw for vertical adjustmetn

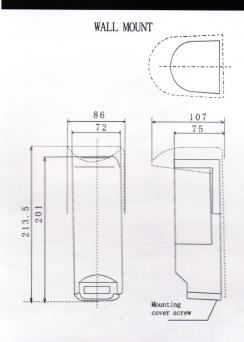
f: Interuption time adjustment

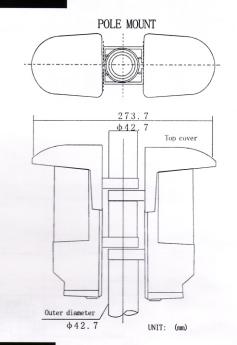
g: Monitor terminals

h: Locking screw for main assem-

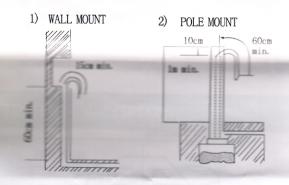
bly to mounting bracket

DIMENSIONS





HOW TO SELECT A MOUNTING LOCATION



W	1	T
Wire Size	At 12VDC input	At 24V DC input
$0.50 \text{nm}^2 (\Phi 0.8)$	500m	3000m
0.75mm ² (φ 1.0)	750m	4500m
1. 25mm²(ф 1. 2)	1250m	7500m
2. 00mm ² (φ 1. 6)	2000m	12000m

Use this chart to determine the wire size and maximum wiring distance between the sensor and power source.

Note:When using more than one pair of untis on the same wire run, the values must be divided by the number of untis used

When installing units, check the strength of the wall or pole:

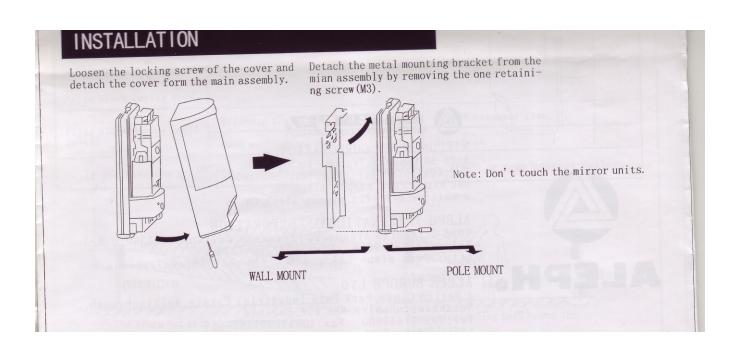
- a. install an electrical box 60cm from the floor or ground.
- b. Use 15cm wire for installation (at box).
- c. When using the wall, bury the wiring or use conduit. Install the wiring box at least 1cm under the cover case.
- d. Installation height should be 60cm to 100cm from floor or ground.

2:Pole Mount

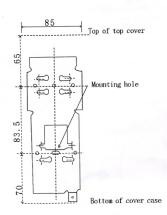
- a. The pole mount should be 1m height.
- b. Make a hole for the wire about 10cm from the top of the pole.
- c. Use at least 60cm of wire from the hole.
- d. Installation height should be 60cm to 100cm from floor or ground.

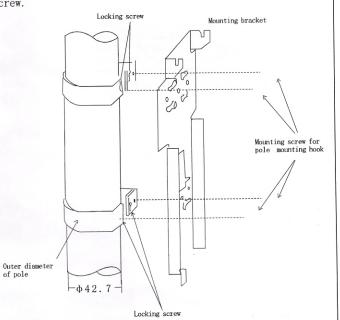
For the best adjustment, install the transmitter and receiver face to face. It is recommended to use shielded wire when not using metal conduit.

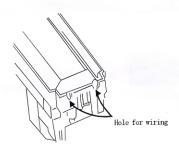
Don't use aerial wire.



Detach the mounting bracket and installation it on the wall vertically with the enclosed self-tapping screw.







Mounting method (see chart above)

Strap for pole mounting is only suitable for a Pole of $\, \varphi\, 42.\,$ 7mm, Other than this pole, please choose the right screws according to the following.

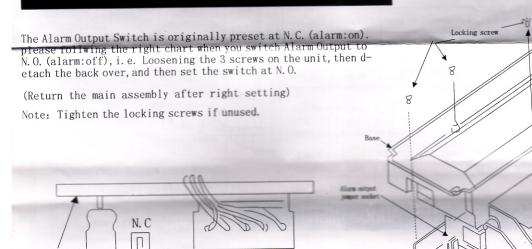
Diameter (Pole)	Specification(Screw)	Remark
ф42.7	M4x 12	Standard
ф38	M4x 16	
ф 4 8	M4x 6	

When using the wall for wiring, cut the knockout of bottom of cover case.

HOW TO SET THE ALARM OUTPUT SWITCH

Alarm: N.O.

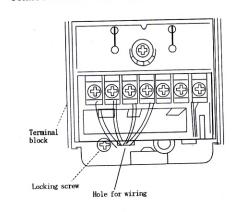
Alarm output jumper socket

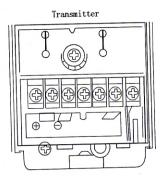


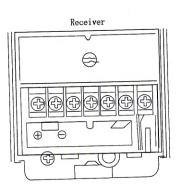


Before wiring, check the strength of the metal mounting bracket. Then install the wire between the main assembly and the metal mounting bracket. Then, using the retaining screw to mount the main assembly to the metal mounting bracket.

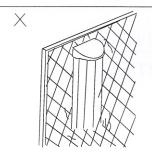
Connect the wire as shown below.



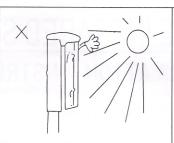




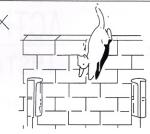
INSTALLATION HINTS



Mount the unit only on a solid location or surface.



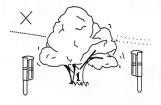
Don't install directly facing a rising or setting sun. This can cause burn damage to internal optics.



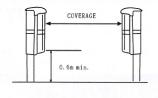
Adjust the alarm duration to higher position where birds or small animals may break the beams.



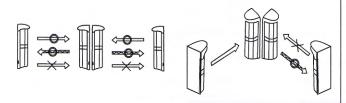
Make the installation place where it is not influenced by the splash of rain water etc.



Don't install the unit where falling leaves or seasonal growth of branches will block the beam.



Floor mount installation heith should be at least 0.6m from floor and don't overtop the coverage



Caution:Each receiver must see only one transmitter (i.e.,install one receiver at each pole)

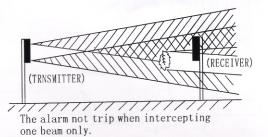


After the installation is completed assure proper operation by walk test.

TROUBLE SHOOTING

CONDITION	CAUSE	REMEDY	
Transmitting green LED does't turn on.	No power or insufficient voltage	Voltage check. Supply correct voltage (11V DC to 26V DC) Check connection	
Alarm red LED on receiver does't turn on when both beams are covered.	(broken connection, power down)		
Alarm red LED on, but no	Signal cable is shorted.	Check cable	
relay output.	Relay contact is frozen.	Replace receiver	
100	Not aligned properly.	Re-align.	
Alarm red LED stays on continuously.	Object is breaking beams.	Remove object.	
	Dirty cover.	Clean cover.	
False alarm during fog.			
False alarm during rain.	Poor alignment.	Re-align.	
False alarm during snow.			
False alarm due to small	Response time short	Adjust response time.	
animal.	Beam mounted too low.	Move beam.	

If you have any questions about this product please contact ALEPH or your nearest dealer.



(TRNSMITTER) (RECEIVER)

When intercepting both beams, the alarm trips.

TEST (OPERATION CHECK)

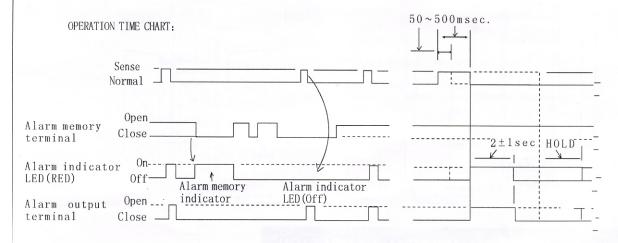
After installing the cover, start an operation check. Confirm that the tamper switchis closed on both units (transmitter and receiver). After installation, walk-test the unit for proper operation.

Ensure that the power voltage is in specification (11V DC to 26V DC).



Sensor	Condition	Indicator	Check
Transmitter	Trnsmitter	Green LED On	
Receiver	Normal	Green LED On	Walk Test
Receiver	Alarm	Red LED On	

If the red LED (alarm indicator) is ON, adjust the optical alignment again. When intercepting both beam (upper and lower), the alarm trips (red LED).



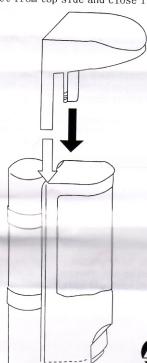
A detection system can be connected with severalalarm memory termianls, Alarm Memory Function-Alarm memory lights the alarm LED continuously to indicate which sensor went into alarm(except the place of alarm continuously).

The alarm memory terminal are open (Non-connection) when on normal, see timing chart above. Please connect the alarm memory terminal to GND to verify detected results.

Caution: Please leave the alarm memory terminal open when on normal.

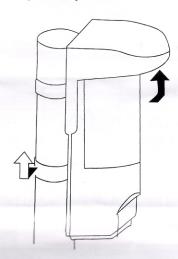


Slide the top guide rails down in groove between the cover and metal mounting bracket from top side and close it correctly.



Top cover remove:

Pull the guide rails outwards and then pull the top cover upwards.





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