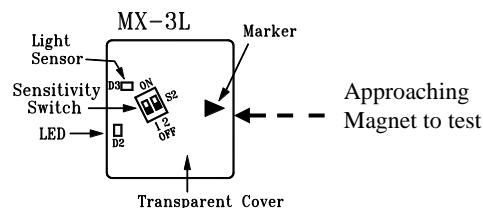


## MINI LIGHT DETECTOR, i4H-MX-3L

### INTRODUCTION

i4H-MX-3L is a mini type light detector to detect the ambient light intensity. It can be used as a control device to control a window shutter when sun goes up or turn on a light when sun goes down. It also can be an alarm device to issue alarm when someone turns on a light in a dark room (24-Hour Zone).



### INSTALLATION

#### D. Enrolling Code

1. Open the case by using a blade type screw driver from the marker side and insert a 3V CR-2032 Lithium battery. (Panasonic brand is recommended).
2. Keep pressing the Clear/Enroll Button on i4H-LS-10/i4H-LS-20 for over 3 seconds and then release it, the i4H-LS-10/i4H-LS-20 would keep beeping and all LEDs blink. This means the system is ready for enrolling device.
3. Within 30 seconds put a magnet (not supplied) closely to the mark of the i4H-MX-3L. If you hear 3 short beeps soon later then enrolling successes, otherwise you will hear one long beep after 30 seconds that means enrolling fails, you have to repeat enrolling action.

**Note: Avoid activating any other sensors during the 30 seconds Device Enroll period.**

Remarks: In case you have to change the device's attribute, please do it on the cloud web directly, or refer to HyperSecureLink software user guide to change it by

#### E. Location

The detector's transparent cover should face the light coming direction.

**Note: Do not mount this detector on a metal surface directly to avoid reducing RF range dramatically.**

#### F. Testing

1. Using a magnet to approach the marker side, the transmission LED flashes once if the light intensity is below the threshold level, flashes twice if the light intensity is above the threshold level.

**Note: For stable operation, the signal strength should be above 40dB (standard version Base Unit). If the signal strength is too low, the detector or Base Unit should be relocated to make the receiving signal as high as possible.**

#### G. Sensitivity Selector (S2)

SW1	SW2	Threshold Level (TL)	Light intensity reference
On	On	100 Lux (highest sensitivity)	Home Reading environment 250-400 Lux (default)
On	Off	500 Lux	Sun rise/ Sun set (outside) 500-1,000 Lux
Off	On	2000 Lux	Rainy day (outside) 2,500-3,500 Lux
Off	Off	4000 Lux (lowest sensitivity)	Sunny day (outside) 5,000-20,000 Lux

### OPERATION

i4H-MX-3L can be used as a control or alarm device by the settings in the Base Unit and it operates according to the following table: (TL means Threshold Level)

Type	Operation	Action on trigger
Control	High	Corresponding switch(s) On when light intensity above the TL. Corresponding switch(s) Off when light intensity below the TL.
	Low	Corresponding switch(s) On when light intensity below the TL. Corresponding switch(s) Off when light intensity above the TL.
Alarm	High	Alarm when light intensity above the TL Restore when light intensity below the TL
	Low	Alarm when light intensity below the TL Restore when light intensity above the TL

## **SPECIFICATIONS**

Power: one 3V CR-2032 lithium battery

RF signals: Above TL/Below TL, Battery Low, Heartbeat (@60 min.), Power on Reset (@power on)

Sensor: NaPiCa (Cadmium Free) type

Light Intensity Threshold Level: 100Lux, 500Lux, 2000Lux, 4000Lux. (+/-40%), selectable

Current Drain: 10uA @ standby, 20mA @ RF operation

Estimated Battery Life: 1 year (@ actuated 10 times/day)

Operating Temperature: -10~ 40°C

Size: 35 x 38 x 10 mm

Weight: about 12g (with battery)

