



USER MANUAL

Model: LMDT-810

Self programming motion detector transmitter for outdoor use. IP44

FEATURES:

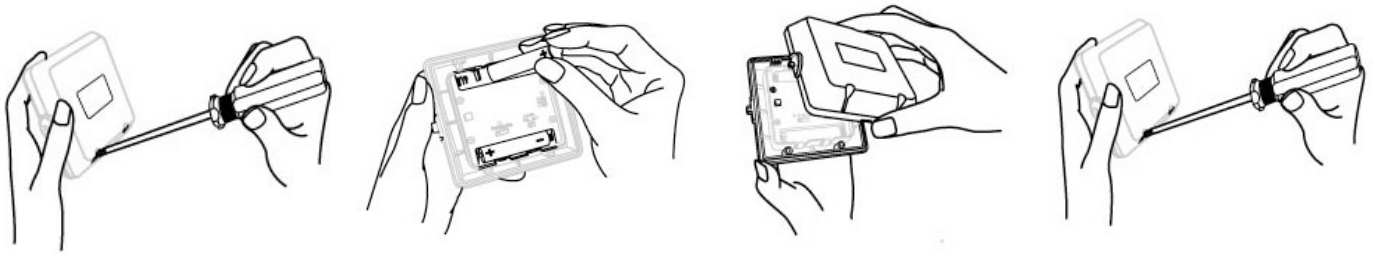
- * 67 million code combinations, no interference from neighbours.
- * Easy operation, no wiring, battery operated.
- * Outdoor use, compatible with ARC self programming type receivers connected to lamp or doorbell as home safety system. (Not suitable for dimmer receiver)
- * Delay-off time switch design. After delay, LMDT-810 sends a signal to switch off the receiver.
- * Battery low indication.

INSTALLATION:

A. INSTALLATION STEPS:

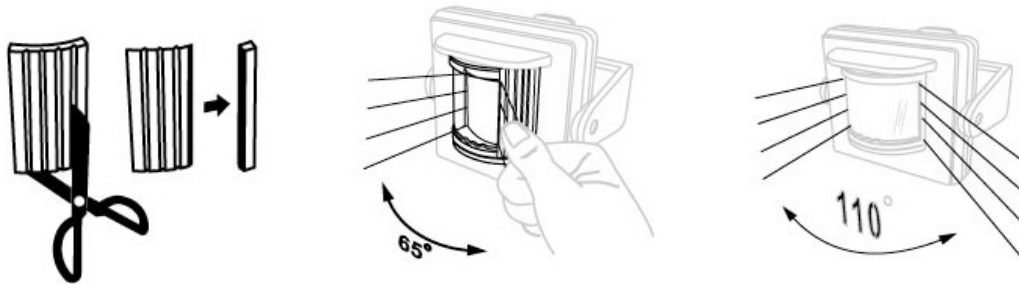


1. Select required location; position 3-4 metres above ground away from trees, direct sources of heat and direct sunlight.
2. Remove LMDT-810 from base. Using base as a template, mark and drill 4 suitable holes.
3. Secure base to wall using screws.
4. Re-attach LMDT-810.
5. Adjust angle and direction.
6. Battery replacement illustrations:

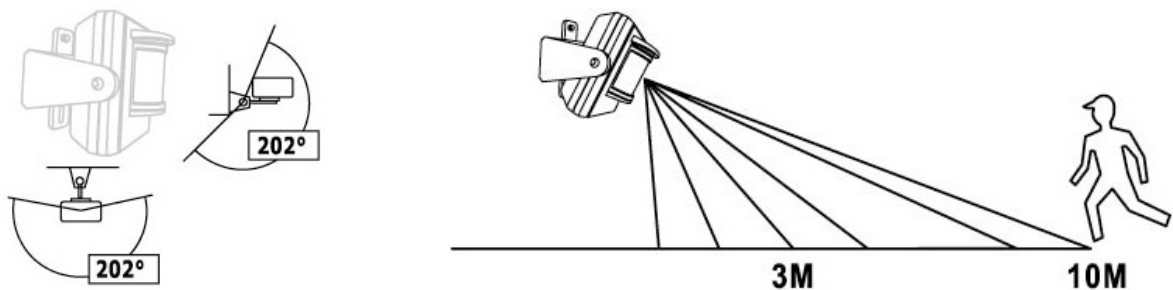


B. DETECTION ANGLE AND RANGE

a. LMDT-810 detection angle is 110 degrees. To reduce the angle of detection, keep the attached lens cover on LMDT-810. If necessary, cut off lens cover, determine the detection angle size from min. 20 degrees to max. 110 degrees.



b. Detection range, adjust LMDT-810 bracket to select required range, 10 metres max.



FUNCTION OF SWITCHES:

A. Delay-off Time Switch: 4 options – *5sec./1min./5min./10min.*

Each option indicates when the time period ends, LMDT-810 sends an 'OFF' signal to the receiver to switch off the receiver and its connected lamp or light. (Doorbells are not restricted by delay-off time). As long as LMDT-810 detects an object again, it sends an 'ON' signal to the receiver to switch on the receiver and its connected lamp, light or doorbell again. The delay-off time counts down when the object stops moving.

B. Learn Switch: DEL/SET 2 options.

DEL means delete learning code from compatible receiver.

SET means set up learning code with compatible receiver.

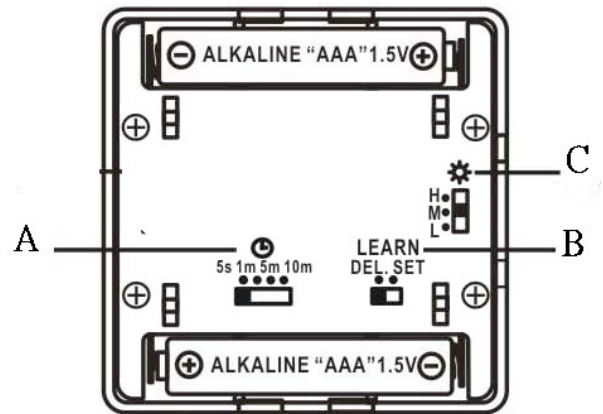
C. Lux. Setting Switch: 3 options – H/M/L.

H- 24 hours in standby. As long as the object is within detection distance, it will be detected. At “H” setting, delay-off time switch is disabled.

****** When LMDT-810 works with doorbell receiver, set H mode.

M- detects when brightness is below 20 +/-5 lux. (late afternoon)

L- detects when brightness is below 10 +/-5 lux. (late evening)



After switching from “M” to “L” for example, there should be a pause of at least 30 seconds leaving LMDT-810 detecting unchanged light and no movement, the “L” lux setting can be accurately set up (activate from the product IC). When it is darker than the “L” lux level, LMDT-810 can detect objects. A similar situation applies for switching from “H” to “M” or “H” to “L” or vice versa, switching from darker level to brighter level. There is a need to remain unchanged for 30 seconds as described above.

D. Battery Low Indicator

Battery low indicator is positioned inside the sensor lens. If the battery is low, the indicator flashes after LMDT-810 delay time ends. Within delay time period, LMDT-810 still works normally until delay time ends.

When the battery is low, the battery indicator starts to flash to inform the user to replace the battery. When the battery is low (battery low indicator starts to flash), LMDT-810 does not work until the user replaces the batteries and re-starts.

OPERATION:

A. Code learning:

1. Place LMDT-810 in ‘DEL’ mode near to self programming receiver, which it will work with.
2. Press learning button of the receiver, LED flashes continuously.
3. Slide LMDT-810 learn switch from ‘DEL’ to ‘SET’, LMDT-810 sends code to receiver.
4. Receiver connected lamp flashes twice to confirm the learned code. Receiver LED stops flashing.



- B. Set up Delay-off Time Switch (5sec./1min./5min./10min)** as option. (See FUNCTION OF SWITCHES)
- C. Set up Lux. Setting Switch (H/M/L)** as option. (See FUNCTION OF SWITCHES).

Note whether there is surrounding light that can influence the brightness and affect the Lux. setting choice. For example, in the late evening, the lux. setting is 'L'. However, if there is a lamp in environments where LMDT-810 would be able to detect, the user may change lux. setting to 'M'. After each set up process, LMDT-810 detects movements within the detection range in order to switch on the light and upon delay off time switch off the light automatically.

Manual switch:

After the code is learnt, the Set/Del switch can also be set as a manual switch to manually switch the light on/off. Adjust to "Set" to switch the light on, adjust to "Del" to switch the light off. Manually adjust to "Del", when LMDT-810 detects movement, can still switch on connected light, and automatically switches off the light at delay time end. However, if manually adjusted to "Set" to switch light on, the light will not switch off automatically at delay time end. Another connected transmitter must be used to switch the light off.

D. Code deletion:

Purpose of code deletion: the user does not want LMDT-810 to work with a certain receiver.

In this case, the user should delete LMDT-810 code from the limited memories of the self programming receiver to release the memory to the next transmitter code setting.

1. Place LMDT-810 in 'SET' mode near to self programming receiver which it works with.
2. Press learning button of the receiver, LED flashes continuously.
3. Slide LMDT-810 learn switch from 'SET' to 'DEL', LMDT-810 sends code to receiver.
4. Receiver connected lamp flashes twice to confirm the code deletion. Receiver LED stops flashing.
5. LMDT-810 and receiver are no longer connected.

TECHNICAL SPECIFICATION:

Delay-off Time: 5sec./1min./5min./10min

Learn Switch: in 'DEL' mode when LMDT-810 ex-factory.

Brightness lux. setting: H/M/L

Frequency: 433.92 MHz

Waterproof: IP44

Transmitting distance with receiver: 20M closed area

Battery: 3V DC Alkaline battery AAA (1.5V) x 2 (Excluded in LMDT-810 ex-factory)

Angle of detection:

vertical- max. 202 degrees

horizontal- max. 110 degrees without lens-cover ~ 20 degree with lens-cover uncut (ex-factory).

TROUBLE SHOOTING:

- a. No activation: check battery life or polarity/ or unsuccessful connection.
- b. Receiver stays ON continuously: LMDT-810 may be suffering from false activation. Adjust the position/angle of the detector to solve the problem.

**** Note:** After installation, please check LMDT-810 is working properly in all switch settings with compatible self programming receiver.

WARNING:

**** LMDT-810 working compatible receiver DOES NOT operate in common with other transmitter.** Otherwise, if the receiver (lamp) is switched ON already by another transmitter (for example: handy transmitter LYCT-505), then when LMDT-810 detects movement and sends “ON” signal to the same receiver, this receiver (lamp) starts to dim.

**** Do not use LMDT-810 with dimmer.**

**** 2 x Fresh AAA (1.5V) battery installed in LMDT-810 are important for providing stable current voltage to LMDT-810 thus enhancing detection and transmission capability. Also 2 fresh batteries can help to keep each other's battery life as long as it should be.**

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