

**BATTERY POWERED
DETECTOR/
TRANSMITTER**
Cat No. TLTXDCB



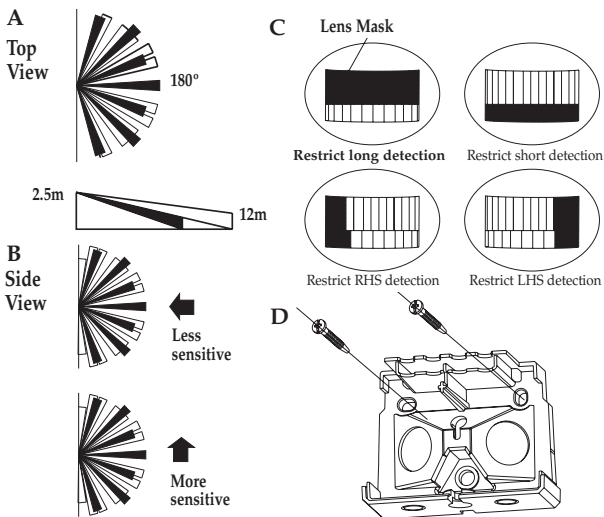
**INSTALLATION & OPERATING
INSTRUCTIONS**

Introduction

The TLTXDCB Battery Powered Detector/Transmitter is part of the Timeguard range of PIR products which communicate by radio frequency (r.f.) signals. This enables substantial amounts of wiring to be eliminated which is particularly useful in long wiring runs and coverage of outbuildings.

It is a combined PIR detector and r.f. transmitter which is battery powered. It detects moving body heat and transmits (sends) a signal to receivers in the system that have been programmed to respond to its coded signal causing their lights to turn on.

In the following instructions products with catalogue numbers including TX (ones that send information about PIR detection) are referred to as Tx units and products with catalogue numbers including RX (ones that receive information about PIR detection) are referred to as Rx units.



Parts included

- PIR Sensor unit.
- Instruction manual. Please keep safe for future reference.
- Accessory Pack.

Tools and parts needed

- Electric/hand-held drill & bits.
- Terminal or Electricians screwdriver
- 1 x 9V alkaline PP3 Battery

Unit can be used indoors or outdoors.

Selecting a location

For optimum performance, mount at 2.5m (8ft) high.

The detector can be pointed in any direction as long as it is within 100m of the receivers it is to be used with.

The detector can detect motion up to 12m within a 180 degree radius.

The detector moves up or down, left or right to change the coverage area.

Keep in mind the sensor is most sensitive to movement across its field of vision.

The motion detector has a number of detection zones, at various vertical and horizontal angles as shown (see diagram A). A moving human body needs to cross/enter one of these zones to activate the sensor.

Careful positioning of the detector will be required to ensure optimum performance. See diagram A.

The detector is more sensitive to movement ACROSS its field of vision than to movement directly TOWARDS it (see diagram B). Therefore position the unit so that the sensor looks ACROSS the likely approach path.

Avoid positioning the sensor where there are any sources of heat in the detection area (extractor fans,

tumble dryer exhausts etc.).

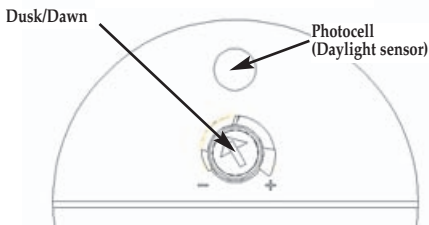
Reflective surfaces (ie pools of water or white-painted walls) and overhanging branches may cause false activation under extreme conditions.

During extreme weather conditions the motion detector may exhibit unusual behaviour. This does not indicate a fault. Once normal weather conditions return, the detector will resume normal operation.

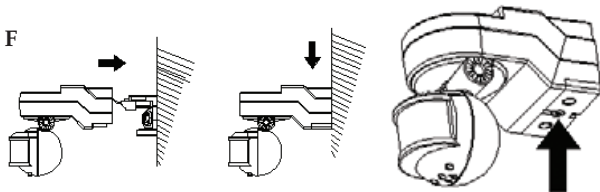
When siting Rx units that will need to work with the TLTXDCB the signal reception range will be less than 100m if walls or chain link fences come between the Tx and Rx units - if there is any doubt whether communication will take place make temporary installations before programming.

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E View on Underside of Sensor Head



F



Installation

Release screw on underside of unit and remove wall plate from main body of sensor, this screw is captive, do not remove. (Fig F)

Mark position of the fixing holes. (Fig D)

Drill the holes. Insert the wall plugs into the holes.

Fit a 9V PP3 alkaline battery.

Fix the mounting plate to the wall. Take care not to overtighten the screws to prevent damage to the mounting plate. If using a power screwdriver, use the lowest torque setting.

Fit PIR to wall bracket and secure by fixing screw. (Fig F)

Setting up

Walk Test Procedure

The sensor will rotate from left to right, and tilt forward or backward. Adjust the sensor to point in the required direction. (note diagram B)

The unit can be set up in daylight or at night. Remove the sticker covering the photocell (daylight) sensor. For daylight set up, leave the Dusk/Dawn adjuster at the sun end. For nighttime operation set the Dusk/Dawn adjuster about two thirds of the way toward the moon end.

Walk in front of the Sensor, keeping an eye on detector's LED (diagram F). It will flash red when sensing an object and transmitting a signal. (The detector will continue to sense motion if present, but will only transmit a signal and flash the LED every 5 seconds.)

Range may be reduced by angling the detector downwards.

Check to make sure the detector covers the desired area and adjust to suit your installation.

Programming

To be operated by the Timeguard Wireless Transmitters, the Timeguard Wireless Receivers must learn the Transmitters unique code. This is achieved automatically by the following procedure.

1. Press the Rx unit's PROGRAM button for 1 to 2 seconds while Rx unit is powered. Be careful not to press for much longer than 2 seconds or you may erase all existing memorised codes. The light will go ON indicating it is in Program Mode and will remain on up to 5 minutes. (If programming a Chime Receiver it will make a "beep" and the LED will flash indicating it is program mode)
2. Activate the Tx unit's PIR detector to send a signal to the Rx unit by walking into its detection zone. The TLTXDCB's LED flashes red indicating motion has been sensed and a signal has been transmitted. The Tx unit will to send its coded signal to the Rx unit and the light will go off. (if using a Chime receiver a "beep" will sound indicating it has been coded with the Tx units signal).
3. The Rx unit has acknowledged the Tx unit's signal by turning the lights OFF. The Rx unit is now programmed to respond to the Tx unit. No other Tx unit can activate this RX unit unless it is programmed to do so.
4. If the lights did not go OFF or the Chime did not "beep" the Rx unit was not picking up a signal. Check the radio signal path between the Tx and Rx units for any obstructions (walls, support beams, chain link fences etc). These can block radio signals and interfere with signal transmission. Up to 5 further Rx units may now be introduced to the Tx unit if required.

PLEASE NOTE:- SEE THE SEPARATE INSTRUCTION MANUALS FOR THE RECEIVER PRODUCTS TO UNDERSTAND HOW TO PROGRAM AND ADJUST THAT SPECIFIC R_x UNIT.

Low Battery Indication

The LED will flash on and off twice at every detection if the battery voltage is low.

Replace the battery as soon as possible.

Troubleshooting guide

Problem

- TLTXDCB LED will not activate when motion is detected.

Possible Cause/Solution

1. Isolation switch is turned off.
2. Adjust sensor to cover desired area.
3. Photocell determines it is daylight.
Adjust Dusk/Dawn control or move away from light source.

- Tone/Light comes on in daylight

1. Label not removed from detector's photocell.
Remove label
2. Tx unit installed in dark location. Adjust Dusk/Dawn control or re-position Tx unit.



Problem

- Light flashes on and off twice when activated.
- Tone/Light activates for no apparent reason
- Light Stays on at night
- Tone/light activates irregularly when motion is sensed

Possible Cause/Solution

- This is the low battery signal. Replace transmitter battery.
- Check area for false activation from heat or reflective source. Re-aim sensor if necessary.
1. Check area for false activation from heat or reflective source. Re-aim sensor.
 2. Receiver is in Manual Override mode. Flip wall switch off then on again within 2 seconds to place back in Auto Mode
1. Sensor is too far from Receiver. move closer
 2. Re-aim Sensor for optimum motion sensitivity. See diagram B.

Technical specifications

Detection Range:	Up to 12 metres
Detection Angle:	180°
Power Supply:	1 x 9V PP3 alkaline battery
Dusk Level Adjustment:	Day and night or night only operation
Environmental Protection:	IP44 (suitable for outdoor use)
Transmission Range:	Up to 100m (varies with surrounding structures)
Conforms to Directive:	89/336/EEC

5 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 5 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge. For years 2 to 5 or any difficulty in the first year telephone the helpline on **020 8450 0515**.



HELPLINE
020-8450-0515



For a product brochure please contact:

Timeguard Ltd.

Victory Park, 400 Edgware Road,
London NW2 6ND

020-8452-1112

or email csc@timeguard.com