RECEIVER CONTROLLER

Cat No. TLRX05

TIMEGUARD LIMITED

INSTALLATION & OPERATING INSTRUCTIONS

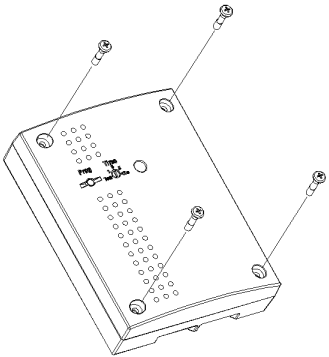
Introduction

The TLRX05 In Line Receiver is part of the Timeguard range of products which communicate by radio frequency (r.f.) signals.
This enables substantial amounts of wiring to be eliminated which is particularly useful in long runs and coverage of outbuildings.

It is an In Line Receiver which receives r.f. signals from transmitters it has been programmed to recognise and turns connected lighting 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.

A



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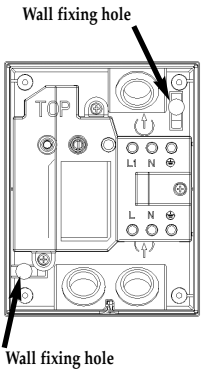
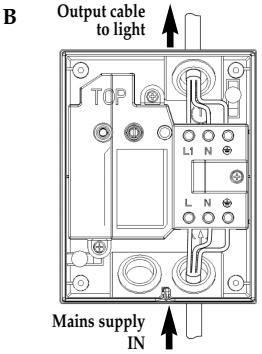
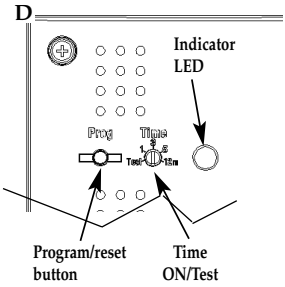






Parts included

- In Line receiver unit.
- Instruction manual. Please keep safe for future reference.
- Accessory Pack.

Tools and parts needed

- Electric/hand-held drill & bits.
- Terminal or Electricians screwdriver.
- Large slotted/philips screwdriver.
- Wire cutters.

Selecting a location

This unit can be used to control lighting indoors or outdoors. The unit is designed for use with fixed wiring only. Ensure that the incoming and outgoing cables are protected from water ingress by use of silicon sealant around the cable inlets.

Do not attempt to install during wet weather, or if you are suffering from nausea or dizzy spells or on medication with similar side effects.

If in any doubt, consult a qualified electrician.

The In Line Receiver must be within transmission range of your chosen transmitter. The In Line receiver can be placed at any convenient break point of the wiring connected to the luminaire it is intended to control. We suggest that the Transmitter is placed in its optimum position to give the coverage and detection required, then the In Line receiver is placed at a point where it can receive the Transmitter`s signal. To ensure that the Receiver is receiving the transmission signal. This will be less than 100m away if walls or chain link fences come between the Tx and Rx units - if there is any doubt about whether communication will take place make temporary installations before programming.

Installation

IMPORTANT

Switch off the electricity at the fuse box by removing the relevant fuse or switching off the circuit breaker before proceeding with the installation.

Remove the front cover of the TLRX05 by removing the 4 x cover fixing screws as (Fig A).
Mark position of the fixing holes. (Fig B).
Drill the holes. Insert the wall plugs into the holes.
PASS THE CABLE THROUGH THE INCOMING AND OUTGOING CABLE GROMMETS BEFORE FIXING THE UNIT TO THE WALL.
Allow approximately 100mm of cable to pass through the grommet. (A template for this wire length is provided on page 8 of this manual). Fit grommet into its location hole ensuring a good seal.
Fix the unit 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.

Connection

Connect the incoming mains cable through one of the lower grommets and into the terminal block as follows (see connection diagram):

NEUTRAL (Blue)	N
EARTH (Green/Yellow)	⏚
LIVE (Brown)	L

Ensure the connectors are secure.

Connect the cable connected to the switched luminaire through the upper grommet to the terminal block as follows (see connection diagram Fig B):

NEUTRAL (Blue)	N
EARTH (Green/Yellow)	⏚
LIVE (Brown)	L1

Ensure the connectors are secure.

Replace front cover and fully tighten the 4 fixing screws as (Fig A).

Programming

Each Rx unit needs to learn the codes involved in the messages from all the Tx units which are required to control it (up to 20).

1. Turn OFF/remove batteries from any Tx unit which is not required to control this RX unit. Turn off any other Rx units. If it is convenient more than one Rx unit can learn the code of a Tx unit simultaneously in which case leave these Rx units switched ON.*
2. The Rx unit needs to be set in programme mode. This will happen automatically up to 4 seconds after the Rx unit is first powered up. It can also be set by pressing the Programme/ Reset button for 1 to 2 seconds (pressing for 5 seconds or longer will erase all programming within the Rx unit). In either case the Time On/Test control must be set to Test which will give a 5 minute period of programme mode. The lights under control of the Rx unit will turn on at the start of this period indicating it is in progress.
3. Go to the Tx unit** to be introduced to the Rx unit and move across the face of its PIR lens within detection range causing it to detect (indicated by the lights under control turning ON for most Tx units and by a flash from the red LED on the TLTXDCB.
4. Return to the Rx unit and check that it has turned the lamps under its control off (indicating correct code learning). *Any other Rx units left connected should now be checked in the same way.

Press the Programme/Reset button for 1 to 2 seconds*** if the Rx unit is required to learn the code of another Tx unit.

*Any other Rx units required to learn the code of this new Tx unit should be left connected.

** If introducing the TLTXK2 hand held transmitter press the "1" button on this unit to activate the TLRX05.

***If the button is pressed for 5 seconds or more then all the codes that have been learnt will be erased.

5. If the lights did not go OFF in step 4 page 5 the Rx is not picking up a signal. Check the radio signal path between the Sensor and Receiver for any metal obstructions (support beams, chain link fences etc). These can block radio signals and interfere with signal transmission. A way to check path if using the Battery Powered Detector TLTXDCB is to set the Rx On time dial to test, remove the sensor from its location and walk the sensor around the Rx. As you walk, wave your hand in front of the sensor Tx. Note when the it turns the Rx light OFF, and re mount in that area.

Settings

After Programming, set the ON TIME dial.

To set how long the lamp will remain ON after the TLRX05 hs received a signal from a Tx unit, set the ON TIME dial on the RX to 1, 3 , 5 or 12 minutes. See fig D.

Manual override

The lamp can be turned on and off independently of any transmission signal by switching the unit off/on once in less than two seconds To return to Auto Mode repeat this switching action.

Erasing all codes

Tx unit codes can be erased for reprogramming. To erase codes, while the TLRX05 is powered, press and hold the PROGRAM button for more than 5 seconds. The light will turn on, go out and then turn on again. This will clear the unit of all programmed codes and place it back into the AUTO PROGRAMMING Mode.

Now return to the Programming Section.

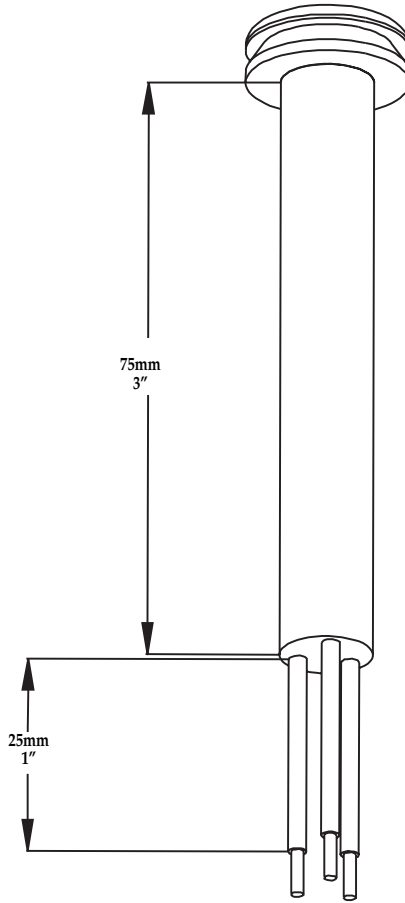
Troubleshooting guide

Problem	Solution
• Light will not come on when motion is sensed.	1. The installation switch is turned off. 2. Light bulb is loose or burned out 3. Sensor is positioned too far from receiver. Move Tx closer
• Light Comes on in Daylight.	1. Tx unit is installed in a dark location. 2. Receiver is in Manual Override Mode. Flip Transmitter wall switch Off then On twice to place back into Auto Mode
• Light Stays on.	Receiver is in Manual Override. Flip wall switch Off then ON twice to place back into Auto Mode.
• Light Flashes on and off twice when activated.	This is the Low battery signal. replace batteries in the Transmitter.
• Light comes on irregularly when motion is sensed.	2. The Tx unit is positioned too far from receiver. Move Tx closer.

Technical specifications

Power Supply:	230 V AC ~ 50Hz
Maximum Switchable Load:	2000W (e.g. 4 x 500W Tungsten Halogen)
Time On Adjustment:	1, 3, 5 and 12 minutes
Environmental Protection:	IP44 (suitable for outdoor use)
Transmission Range:	Up to 100m (varies with surrounding structures)
Conforms to Directives:	73/23/EEC and 89/336/EEC

Incoming Wire Template



Use this template to estimate incoming cable length

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.**

FIVE YEAR
5
GUARANTEE

HELPLINE
020-8450-0515

TIMEGUARD LIMITED

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London NW2 6ND
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