In Line Receiver Switch
E-988

INSTALLER GUIDE

V1.0 - 04/05
IQ-IL-RX-T

IQ Europe Limited
Sandbeck Lane, Wetherby LS22 7TW.
Visit us at www.iq-europe.co.uk
Installation helpline 0871 717 1100

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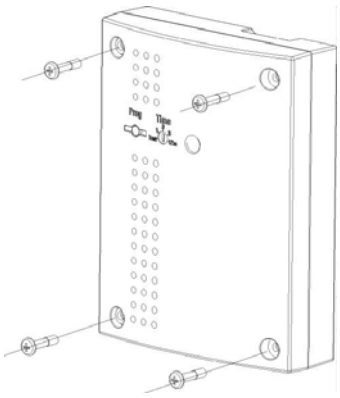

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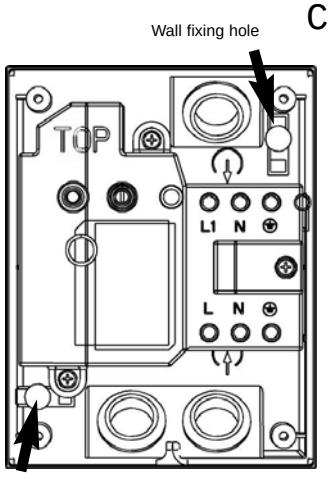

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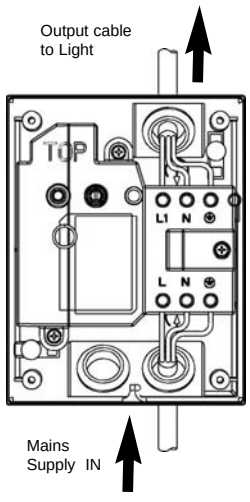

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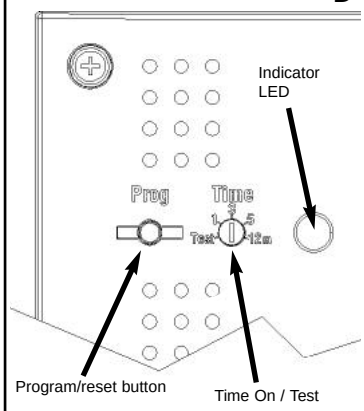

MANUFACTURER'S EXTENDED WARRANTY

In addition to your statutory rights relating to this product it is also guaranteed by IQ (Europe) Limited ("IQ") for 12 months from the date of purchase against faulty materials or workmanship which affect its designed ability to detect or switch. During this period if the product has a defect of this nature it will be repaired or replaced free of charge by IQ with the same item, or a similar one of higher specification, ON CONDITION THAT:-

The buyer takes advantage of any 'return to store' scheme operated by the seller from whom it is bought.

If the product has a defect outside the period of any seller's 'return to store' scheme it should be returned to IQ (Europe) Limited at Sandbeck Lane, Wetherby, W. Yorks LS22 7TW, England at the expense of the buyer together with evidence of the date of purchase (it is the responsibility of the buyer to prove delivery to IQ).

The product has been bought by the user.

The product has not been misused or handled carelessly, installed incorrectly, or used on a voltage supply other than that shown on it.

Repairs have not been attempted by anyone other than IQ's staff.

The product has been used for domestic purposes only.

The product has not been installed in any unusually exposed or harsh environmental conditions.

If the buyer is resident in the EU the product or its replacement will be returned to the buyer at the expense of IQ.

This guarantee excludes liability for discolouration of paint or plastic, or any user replaceable parts and in particular lamps, glass panels, or globes/lanterns. It does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage.
This guarantee is offered as an additional benefit and does not affect your statutory rights as a consumer.

This contract is subject to the laws of England and Wales.

***** IMPORTANT *****

As of 1 January 2005, changes to the Building Regulations affect domestic electrical installations in England and Wales. You don't need to be a qualified electrician to make changes to your home's electrical system, but the work must be done in accordance with the Regulations.

Where you employ an electrician who is a member of a competent person self-certification scheme, they will be able to certify the work complies with the Regulations.
If you decide to carry out the work yourself we recommend that you make yourself aware of the Regulations before you begin and if you require any clarification you should contact your Local Authority Building Control Department.

Details of the Building Regulations can be obtained on the internet via the government website www.odpm.gov.uk/explanatory-booklet

SECTION ONE
GENERAL INFORMATION

This In Line Receiver must be used in conjunction with suitable IQ Transmitter units in the IQ Wirefree range.
Upon detection of a signal from a transmitter (bought separately) this In Line Receiver will react as programmed.
PLEASE NOTE:- PLEASE SEE THE SEPERATE INSTRUCTION MANUALS FOR THE TRANSMITTER PRODUCTS TO UNDERSTAND HOW TO PROGRAM AND ADJUST THAT SPECIFIC TRANSMITTER.
THIS MANUAL COVERS THE INSTALLATION OF THIS SPECIFIC IN LINE RECEIVER ONLY
PARTS INCLUDED
- In Line receiver unit.
- Instruction manual. Please keep safe for future reference.
- Accessory Pack.

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

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, if you are suffering from nausea or dizzy spells or on medication with similar side effects. If in any doubt, consult a qualified tradesperson or electrician.

SECTION TWO
SELECTING THE LOCATION

The In Line Receiver must be with 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 Reciver is receiving the transmission signal. we suggest the the in Line RX is connected to the mains in cable only at first. the indicator LED can be used as a substitute for the intended light and operation can be confirmed by the illumination of the LED once movement is detected or a transmission signal is sent from your chosen transmitter.

SECTION THREE
INSTALLATION

Remove the front cover of the In Line receiver by removing the 4 x cover fixings 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 70mm of cable to pass through the grommet. 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.

***** 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.

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 4 fixing screws as fig A.

SECTION FOUR
OPERATION AND TESTING

Installation.
1. Position your Tx in desired area, perform walk tests to confirm detection zones.
2. Position your Rx in desired area up to 100m away from the TX, take into account the path between the sensor to ensure range is acceptable.

Auto Programming
Once the PIR Tx and Rx are installed, the Rx needs to learn the coded signal transmitted from the Tx Sensor.

1. To activate the Auto programming mode, activate the PIR Tx by walking into its detection zone. On triggering, the PIR sensor will send a signal to the Rx.
Set the Rx to TEST Mode see fig C. When the Rx first powers up, the lights will remain off for a short period, after that the controlled light and indicator LED will come ON to indicate the programming period has began.
The Rx indicates that it has received the unique coded signal by turning its light ON. The light will remain ON for approximately 5 minutes indicating it is in PROGRAM MODE.
2. If you are using the TG-HH2-TX (Hand held Transmitter) in your system, Press the hand held remote`s OFF button during the 5 minutes Program Mode to send its coded signal to the RX and the light will go off. This code will be stored in the Rx along with existing codes and the Rx will now respond to the hand held remote as the ON and OFF buttons are pressed.
3. Activate the Tx PIR sensor signal to the Rx by walking into its detection zone. The Sensors LED flashes red indicating motion has been sensed and a signal has been transmitted.
4. The Rx acknowledges this signal by turning the lights OFF. The Rx is now programmed to respond the Tx PIR. No other Tx can activate this RX un less it is programmed to do so.

5. If the lights did not go OFF 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 Remote Motion Sensor (TG-SA72F-DC-TX) 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 Auto Programming, set the ON TIME dial.

ON TIME. To set how long the lamp will remain ON after motion has been detected, 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 the detection criteria by switching the unit OFF/ON once in less than two seconds To return to Auto Mode switch the unit OFF/ON

Adding Additional RX TX
The Halogen Light Rx`s can be programmed to operate with up to 20 remote sensors and /or remote lighting controls. These products can easily be added to the system.
To add additional transmitters (Tx), press the PROGRAM button for 1 while the Receiver is powered.
DO NOT PRESS FOR LONGER THAN 2 SECONDS AS YOU MAY ERASE ALL EXISTING CODES.
The light will turn ON indicating it is in PROGRAM MODE and will remain on for 5 minutes. During this time simply activate the add on Tx by walking in its detection zone, it will send its coded signal to the Rx and the light will go off. This code will be stored in the Rx along with existing codes and the Rx will now respond to that Tx.

Erasing All Codes.
Tx codes can be erased for reprogramming. To erase codes, while RX 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 Rx of all programmed codes and place it back into the AUTO PROGRAMMING Mode.

Note:- to prevent inadvertent programming by other transmitters, gradually add batteries or turn on power to the Tx you want coded to the Rx during the AUTO PROGRAMMING Mode. Wait at least 30 minutes after completing the AUTO PROGRAMMING before you replace batteries or turn on power to those TX`s that you do not want programmed to activate this particular receiver

SECTION FIVE
TECHNICAL SPECIFICATIONS

Power Supply	**230 V AC ~ 50Hz**
Maximum Switchable Load	**2000W (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)**

If you experience problems refer to Troubleshooting Guide.
If problems still exist, do not immediately return the unit to store.

Telephone the IQ Customer Helpline

0871 71 71 100 Weekdays 9.00am - 5.00pm

support@iq-group.com www.iq-europe.co.uk

Qualified Customer Support Co-ordinators will be on-line to assist in resolving your query.

SECTION SIX
TROUBLESHOOTING GUIDE

PROBLEM	SOLUTION
o Light will not come on when motion is sensed.	1. The light switch is turned off. 2. Light bulb is loose or burned out 3. Sensor is positioned too far from receiver. Move Tx closer 4. Metal on building, chain link fence, etc. blocking path of sensor`s signal transmission. a way to check path if using the Remote Motion Sensor is to set Receiver`s on time dial to test. remove Tx from its location, recover the photocell if daylight. as you walk the sensor around the Receiver, activate the Transmitter until it turns the receiver ON. Remount the the transmitter in that area.
o Light Comes on in Daylight	1. Sensor is installed in Dark location section 2. Receiver is in Manual Override Mode. Flip Transmitter wall switch Off then On twice to place back into Auto Mode
o Light Stays on	Receiver is in Manual Override. Flip wall switch Off then ON twice to place back into Auto Mode.
o Light Flashes on and off twice when acticvated.	This is the Low battery signal. replace batteries in the Transmitter.
o Light comes on irregularly when motion is sensed.	1. Sensor is too far from receiver. Mover cleaner. 2. Sensor is positioned too far from receiver. Move Tx closer Metal on building, chain link fence, etc. blocking path of sensor`s signal transmission. a way to check path if using the Remote Motion Sensor is to set Receiver`s on time dial to test. remove Tx from its location, recover the photocell if daylight. as you walk the sensor around the Receiver, activate the Transmitter until it turns the receiver ON. Remount the the transmitter in that area. 3. Re- aim sensor for optimum motion sensitivity

DID YOU KNOW...

IQ products are designed and manufactured to give many years of trouble-free service.
The materials used during manufacture have been selected to allow the product to be easily recycled when no longer functional.
Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice

LIGHT POLLUTION & CONSIDERATE LIGHTING
Please be aware of the annoyance over-lighting an area can cause to your immediate neighbours.

Light pollution caused by incorrectly installing a unit or over-lighting an area can be limited by carefully considering the location and position of your unit before installation. The light spread on all halogen floodlights can be reduced by angling the floodlight downwards on the mounting bracket. This will also concentrate the light on your property and limit the potential inconvenience of the light shining into your neighbours windows etc.

Please see **Selecting a Location** for information on choosing the optimum location for your security light.