STATUS Brightness

Fig. 3 also shows how an external resistor can be added to reduce the brightness of the Status LEDs on ELAN IR sensors. In this example, a PWR2 12VDC Power Supply is used as the voltage source to indicate ON/OFF status of an A/V Receiver. Choose a resistor value that achieves the brightness you desire (about 2.2k to 12k, 1/8W). Connect it in series with the STATUS lead on each IR sensor, as shown.

Limited Warranty

ELAN HOME SYSTEMS, L.L.C (ELAN) warrants this product to be free from defects in materials and workmanship for five (5) years from date of purchase. If within the warranty period purchaser discovers such item was not as warranted above and promptly notifies ELAN in writing, ELAN shall repair or replace the items at the company's option. This warranty shall not apply (a) to equipment not manufactured by ELAN, (b) to equipment which shall have been installed by other than an authorized ELAN installer, (c) to installed equipment which is not installed to ELAN's specifications, (d) to equipment which shall have been repaired or altered by others than ELAN, (e) to equipment which shall have been subjected to negligence, accident, or damage by circumstances beyond ELAN's control, including, but not limited to, lightning, flood, ,electrical surge, tornado, earthquake, or any other catastrophic events beyond ELAN's control, or to improper operation, maintenance or storage, or to other than normal use of service. With respect to equipment sold by, but not manufactured by ELAN, the warranty obligations of ELAN shall in all respects conform and be limited to the warranty actually extended to ELAN by its supplier. The foregoing warranties do not cover reimbursement for labor, transportation, removal, installation, or other expenses which may be incurred in connection with repair or replacement.

Except as may be expressly provided and authorized in writing by ELAN, ELAN shall not be subject to any other obligations or liabilities whatsoever with respect to equipment manufactured by ELAN or services rendered by ELAN.

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HOME SYSTEMS™

2428 Palumbo Dr.
Lexington, KY 40509
(859) 269-7760
www.elanhomesystems.com

P/N 224379 X2

INFRARED CONTROL

by ELAN

IRS8EP

Extreme Plasma Surface-Mount IR Sensor w/Bare Leads

Introduction

The IRS8EP is designed to block the most severe Plasma, CFL, EMI, and ESI noise sources using an exclusive intelligent circuit. In addition, the Pick-Up Module of this 2-piece design allows mounting on flat surfaces in very tiny spaces of furniture recesses, monitor panels, under shelves, etc., using the adhesive strips supplied. The Main Module can either be mounted on an exterior surface, so that the green STATUS and blue Activity LEDs are visible, or mounted out of sight on an interior surface. There are no IR pick-up devices in the Main Module. The IRS8EP features bare leads to facilitate connection to terminal strips, IR distribution blocks, etc.. The IRS7EP Extreme Plasma Surface-Mount IR Sensor w/Plug is also available for connecting to devices requiring a Quad plug connection such as ELAN's IRD4 Amplified Connection Block.

Note: *The action of the circuit is such that an initial flicker of the blue Activity LED will occur when CFL type lighting is first turned on. Also, occasional flickering may occur in the presence of plasma interference during scene changes, etc. This is normal operation and does not prevent IR commands from controlling system components.*

Placement Notes: This IR sensor is very effective at blocking Plasma and other types of noise from being passed through to controlled components. However,the effective range of IR control will decrease as the intensity of such interference increases. For best range performance, the Pick-Up Module should be oriented or placed in such a way as to minimize the intensity of such interference. This may mean placing the Pick-Up Module on a surface set back from the front surface of a plasma TV panel, or keeping CFL or overhead electronically ballasted fluorescent lights 3 feet or more distant.

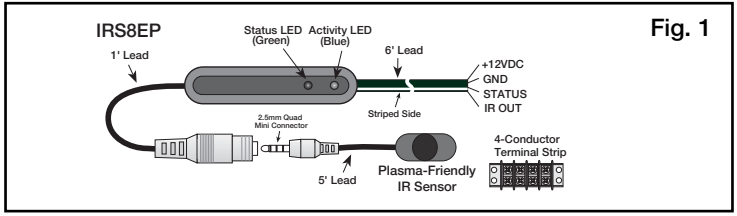


Fig. 1

Features

- The IRS8EP comes with stripped ends plus a 4-conductor terminal strip allowing interface connections to in-wall room-to-room wiring (refer to Fig.1).
- Plasma Blocking Circuit
- STATUS Indicator: Green LED for System On/Off indication
- ACTIVITY Indicator: Blue LED indicates IR signal activity

Specifications:

- Requires 12 VDC power supply, termination block and IR emitters for IR operation
- Mounting: Both the Pick-Up and Main Modules attach to any flat surface using the included adhesive strips.
- Power: 12V DC @ 12mA
- Carrier Frequency Acceptance Range: 36kHz to 60kHz
- Output Carrier Freq.: 38kHz & 56kHz
- Control Range: Up to 75 feet, depending on remote strength and ambient noise conditions
- Control Angle: +/- 50 degrees off-axis
- Room-to-Room Wire Recommendations: Cat-5
- Maximum Recommended Cable Length: 1200 feet using Cat-5
- Dimensions: Pick-Up Module: 7/8" (23mm) L x 13/32" (10.3mm) W x 9/32" (7.2mm) D.
  Pick-Up Module Lead Length: 5' (1.5m).
  Main Module: 2-9/16" (65mm) L x 9/16" (14mm) W x 1/2" (13mm) D.
  Main Module Lead Length: 6' (1.8m).

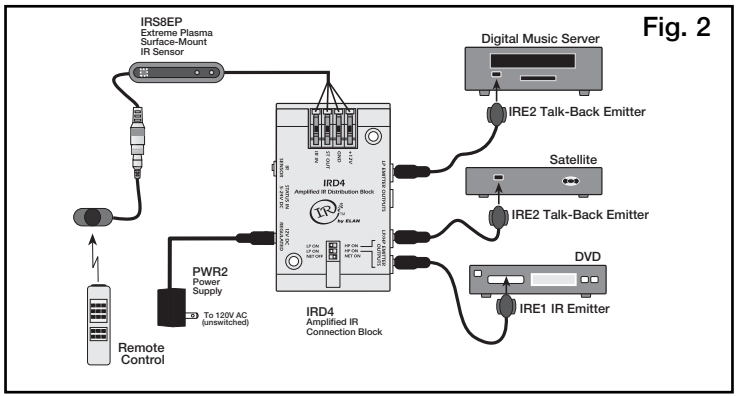
Stand-Alone System Connections:

Note: *For ELAN system connections, please refer to the appropriate ELAN Multi-Room Controller's installation manual.*

A: Basic System

Fig. 2 shows a basic plug-and-play installation, such as controlling components located behind closed cabinet doors or in a closet.

Fig. 2



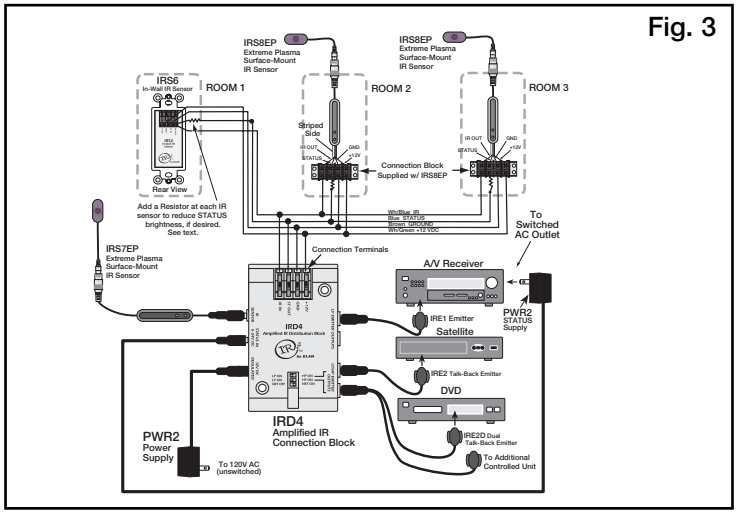
1. Mount the IRS8EP Pick-Up Module in a recessed cabinet area or under a shelf, using the adhesive strip supplied.
2. If necessary, drill a 9/32" hole to pass the 2.5mm plug and wire through to the in-line jack on the Main Module inside the cabinet.
3. Connect the IRS8EP and IR emitters into the ELAN IRD4, as shown.
4. Set the dipswitches on the IRD4 to LP ON and NET ON or OFF.

5. Plug in the power supply.
5. IR signals sent to the IRS8EP will pass through the IRD4 and control the equipment.

B: Multi-Room System

Fig. 3 shows multiple ELAN IR Sensors in a stand-alone multi-room system.

Fig. 3



1. Pull Cat-5 from each room (home runs) to the IRD4 terminator near the controlled components.

   Note: *MAX DISTANCE of ALL Wire Runs is 1200 ft using Cat-5 cable. When using long lengths, the dipswitch on the IRD4 must be set to the NET ON position and a 500 Ohm resistor must be used.*

2. Connect IR sensors in each room to the Cat-5 runs as shown, using the terminal strips supplied.
3. Connect the Cat-5 wires to the correct location on the IRD4 connection terminals (+12VDC, IR, STATUS, and GND).
4. Plug the IRE1 and IRE2 Emitters into the IRD4.
5. Set the dipswitches to LP ON and NET ON.
6. Plug the local IRS7EP IR Sensor into the IR SENSOR jack.
7. Plug in the PWR2 12VDC Power Supply.
8. IR signals sent to the IR sensors will pass through the IRD4 and control the equipment.

   Note: *Refer to the ELAN IRD4 Instructions for power supply considerations and other important information.*