Included Components

- Always follow local electrical codes when installing this device. Only a qualified electrician should install the product.
- ILLUMRA Relay Receivers are intended only for use dry locations and with permanently installed fixtures.
- ILLUMRA Relay Receivers should not be installed in close proximity to heat sources such as 75W+ ceiling fixtures. (see Operating Temperature)
- ILLUMRA Relay Receivers should not be installed in close proximity to metal, concrete and dense building materials will reduce the range. Mount higher and away from obstructions to maximize the range.
- Straighten antenna out & away from metal.
- Mount higher and away from obstructions to maximize the range.
- Always follow local electrical codes when installing this device. Only a qualified electrician should install the product.
- WARNING: To avoid the risk of fire, shock or death TURN OFF POWER at the Relay Receiver prior to final installation.
- Note: The Relay Receiver must be powered on while linking. After linking, the Relay Receiver retains the settings in the event of power loss. When in Link Mode, the Relay Receiver's communication range is lowered to prevent accidental interference from other transmitters. For best results, transmitters should be within 15 ft. (5 m) of the Relay Receiver when linking.

Choosing the Optimal Mounting Location

Link Mode 4: Scene Mode
- Scene mode is used to link a receiver to recall a specific relay state when a button is pressed. Typically, scene mode is used when a single transmitter action affects multiple receivers in which some receivers turn ON and others turn OFF with a single button press.

Links:

1. Rocker Mode – Top of the switch turns ON the relay, bottom turns it OFF. For this mode, link only one side; the switch automatically configures the other side.
2. Momentary Mode – Pressing a button on a wireless switch causes the relay to go ON momentarily and stay on while the button is pressed. When the button is released, the relay goes OFF. Each button on the transmitter may control a different relay.
3. Toggle Mode – Pressing a button on a wireless switch causes the relay to go ON. Pressing it again causes the same switch to go OFF. Each button on the transmitter may control a different relay.
4. Scene Mode – Scene mode is used to link a receiver to recall a specific relay state when a button is pressed. Typically, scene mode is used when a single transmitter action affects multiple receivers in which some receivers turn ON and others turn OFF with a single button press.

Notes:

- When in Link Mode, pressing the occupancy sensor link button causes the relay output to toggle on linked relays.
- When the receiver is turned off with a manual control, Auto On is disabled until the occupancy sensor timeout expires (15 minutes of no activity).
- Occupancy sensor time out is activated by detected occupancy. If no linked sensors detect occupancy or if they malfunction, the relay will stay on instead of turning off every 15 minutes.
Key Card Switch

Link Mode 2: Key Card Switch – Relay turns ON the relay when a key card is inserted. Relay turns OFF when the key card is removed.

Switch Leg Transmitter (SLT)

Mode 1: When the Switch Leg Transmitter is energized, the relay turns ON. When power is removed from the SLT, relays turns off.

Door/Window Sensor

Link Mode 1: Instantaneous Mode – Door/Window Sensor Open, Relay turns OFF. Door/Window Sensor closed, Relay turns ON. Instant response.

Link Mode 2: Delay Mode – Door/Window Sensor Open, Relay turns OFF after relay has been on for at least 5 minutes. Door/Window Sensor closed, Relay turns ON after relay has been off for at least 5 minutes. Delays prevent short cycling of equipment. This mode is commonly used in HVAC applications.

Note: When relay mode is active all linked transmitters are subject to minimum on and off delays.

Light Sensor

Link Mode 1: Light Sensor – When sensed light level is below a threshold, relay turns OFF. When sensed light level is above a threshold, relay turns OFF. Short cycling of equipment. This mode is commonly used in HVAC applications.

Link Mode Activation Instructions

The Link Modes build on each other: transition to Link Mode 2 while Link Mode 1 is active, as outlined below.

Link Mode Instructions:

1. Press the link button for the transmitter to be deleted. Toggling will pause in the ON state when Links are added. (Toggling pauses in the OFF state for 3 seconds then resume when the link is created.
2. Link additional transmitters (up to 30) as needed, wait 30 seconds to exit Link Mode. Toggling stops when Link Mode stops.

Additional functions

Master Function

One or more transmitters may be linked with a Master Function which creates a separate logic channel. The Relay turns on only when both the Master channel and the normal channel call for the ON state. A logical AND function with the two channels is used to determine the relay status. A common use for the Master Function is to link a Light sensor as a Master and an occupancy sensor as normal device to prevent Auto ON with motion in daylight. To Link a device as a Master, press the link button twice within 3 seconds when linking, relay will stutter to indicate Master Function was successful.

Master Function is not intended for use with Occupancy or SLT sensors.

CLR button functions:

Toggling relay – Press and release the CLR button in less than one second to toggle the relay state.

Purge All Links – Press and hold the CLR button for 3 seconds to purge all Links from the relay and activate Link Mode 1. The relay will toggle a steady pattern indicating Link Mode 1 is now active.

Selective Link Deletion

To remove one Link from the relay and leave others unaffected:
1. Activate the Link Mode used to Link the transmitter. Relay will toggle a pattern indicating the active Link Mode.
2. Press the link button for the transmitter to be deleted. Toggling will pause in the OFF state for 3 seconds then resume when the Link has been deleted. (Toggling pauses in the ON state when Links are added.)
3. Wait 30 seconds for Link Mode to exit. Toggling stops when Link Mode stops.

Repeater

Repeater capability extends the range for other compatible transmitters and receivers in the area by retransmitting any packets received. This receiver supports Level 1 Repeating which means that the relay will repeat all signals in the same area it is recommended that some Repeaters be disabled to reduce interference.

Power Up Mode

Select a Power Up Mode to power up in one of three states: 1 – State Memory; 2 – Default ON or 3 – Default OFF. The factory setting is State Memory.

State Memory – Power up to the last state saved prior to the power cycle. A new state is saved 10 seconds after the last state change. If a relay is linked to only occupancy or light sensors or nothing at all, the relay will power up to the ON state. Default ON – Turn relay ON when powered up. Default OFF - Leave relay OFF when powered up.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>EIR-R24-3HOTP</th>
<th>EIR-R34-3HOTP</th>
<th>EIR-R44-3HOTP</th>
<th>EIR-R54-3HOTP</th>
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<tbody>
<tr>
<td>Memory</td>
<td>Stores up to 30 switch IDs</td>
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<tr>
<td>Dimensions</td>
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<tr>
<td>Operating Temperature</td>
<td>14° to +122°F (-10° to +50°C)</td>
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<tr>
<td>Storage Temperature</td>
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<td>Safety Approval</td>
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Contains FCC ID: SZV-TCM2XXC. The enclosed device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (i) this device may not cause harmful interference and (ii) this device must accept any interference received, including interference that may cause undesired operation.

ETL (US) – Conforms to UL STD 244A. This device was tested according to and was found to comply with UL 244A Solid State Controls for Appliances and UL 2043 UL Standard for Safety Fire Test for Heat and Visible Smoke for Radiant Discrete Products and Their Accessories Installed in Air-Handling Spaces.

ETL (Canada) – Certified to CAN/CSA STD C22.2 No. 14-65. This device was tested according to and was found to comply with CAN/CSA STD C22.2 No. 14-65.