

FEATURES & SPECIFICATIONS

INTENDED USE

A passive infrared motion sensor that switches the lighting fixture control relays based on occupancy. The sensor detects moving temperature differentials against background radiation. When occupancy is detected, the lighting system is switched to full output until no occupancy is detected (one to 15 minutes, field adjustable). Sensor is factory preset at its optimum performance angle (43°) and can be field-adjusted. Designed for use in indoor applications with 15- to 35-foot mounting heights where a long, narrow coverage pattern is desired.

HOUSING

Cast aluminum, single-gang enclosure with cast aluminum 1/2" NPT threaded and fully-adjustable mounting knuckle.

Sensor housing is high-impact plastic.

Aluminum components painted after fabrication.

ELECTRICAL

Provides start at high circuitry to stabilize lamps for 15 minutes.

Input voltage: 120V or 277V AC, 50/60 hertz.

Output voltage: 120V or 277V AC.

Time delay: 1-15 minutes. Externally adjustable on top of sensor.

Adjustment tool included.

Switching capacity: 4 amps (800 KiloWatch fixtures).

Power consumption: 100 MA.

Operating modes:

On = High level

AUTO ON

Auto = Automatic KiloWatch (high/low) operation

AUTO AUTO

Off = Low level

OFF AUTO

OFF AUTO

Environmental: 14° to 160°F temperature range. 20% to 90% relative humidity (non-condensing). LT suffix allows for -14 F operation.

WIRING INSTRUCTIONS

The KWIR sensor has two time delay adjustments on the top of the unit. The power up delay prevents the sensor from switching to the low mode for approximately 15 minutes after power has been turned on. This period ensures that the HID lamps will reach full operating temperature before they are switched to the low mode. This adjustment is factory-set, but may be adjusted if required. The high level delay sets the time delay after motion is no longer sensed that the fixtures remain in the high mode. This adjustment is factory-set at approximately 75 seconds (minimum), but may be adjusted if required. The available range is one minute minimum to approximately 20 minutes.

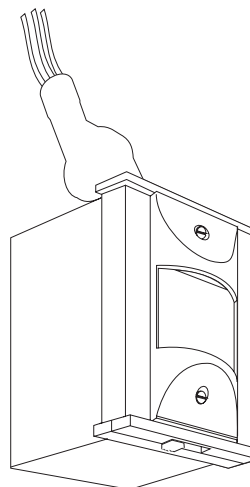
LISTING

UL listed for US and Canadian safety standards.

Dual-Level Lighting

KWIR

Motion Detector
Long, Narrow Coverage



KILOWATCH™

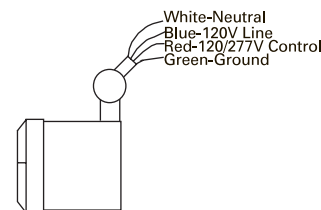
Specifications

Height: 8-3/4" (22.2cm)

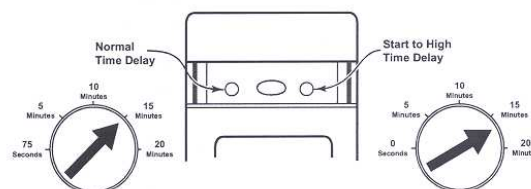
Width: 3" (7.8cm)

Depth: 3-7/8" (9.6cm)

Weight: 2 lbs./9 kg.



TIME DELAY ADJUSTMENTS



ORDERING INFORMATION

Example: KWIR RL120

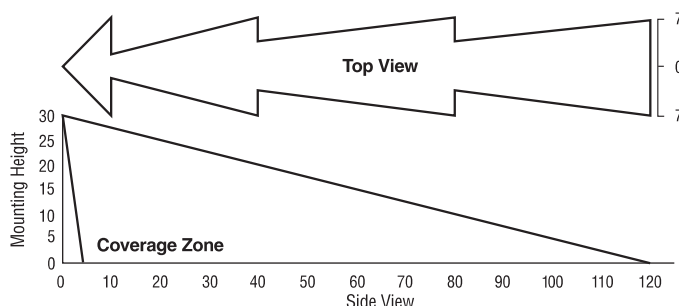
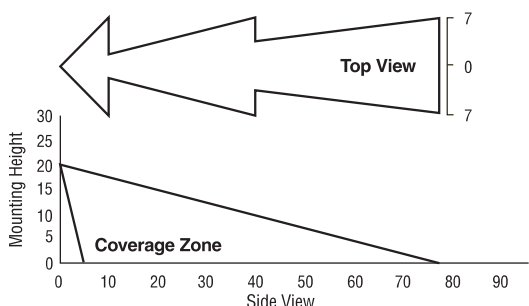
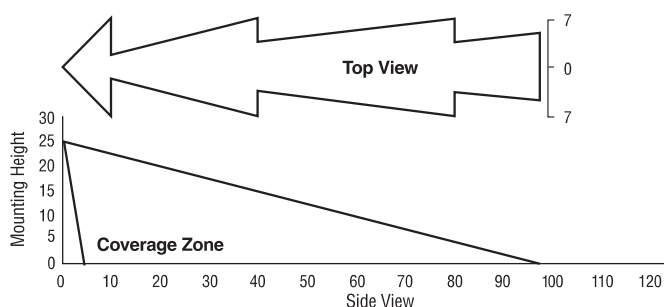
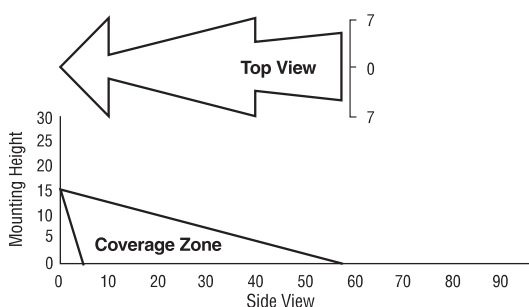
KWIR	
Series	Type
KWIR KiloWatch Motion Detector	(Blank) For 120/277V AC hardwire applications
	RL120 For 120V AC Reloc applications
	RL240 For 240V AC Reloc applications
	RL277 For 277V AC Reloc applications
	RL280 For 280V AC Reloc applications
	RL347 For 347V AC Reloc applications ¹
	RL480 For 480V AC Reloc applications ²

NOTES:

- Requires KWTX control voltage transformer.
- Requires KWTX control voltage transformer if neutral is not pulled from distribution panel.

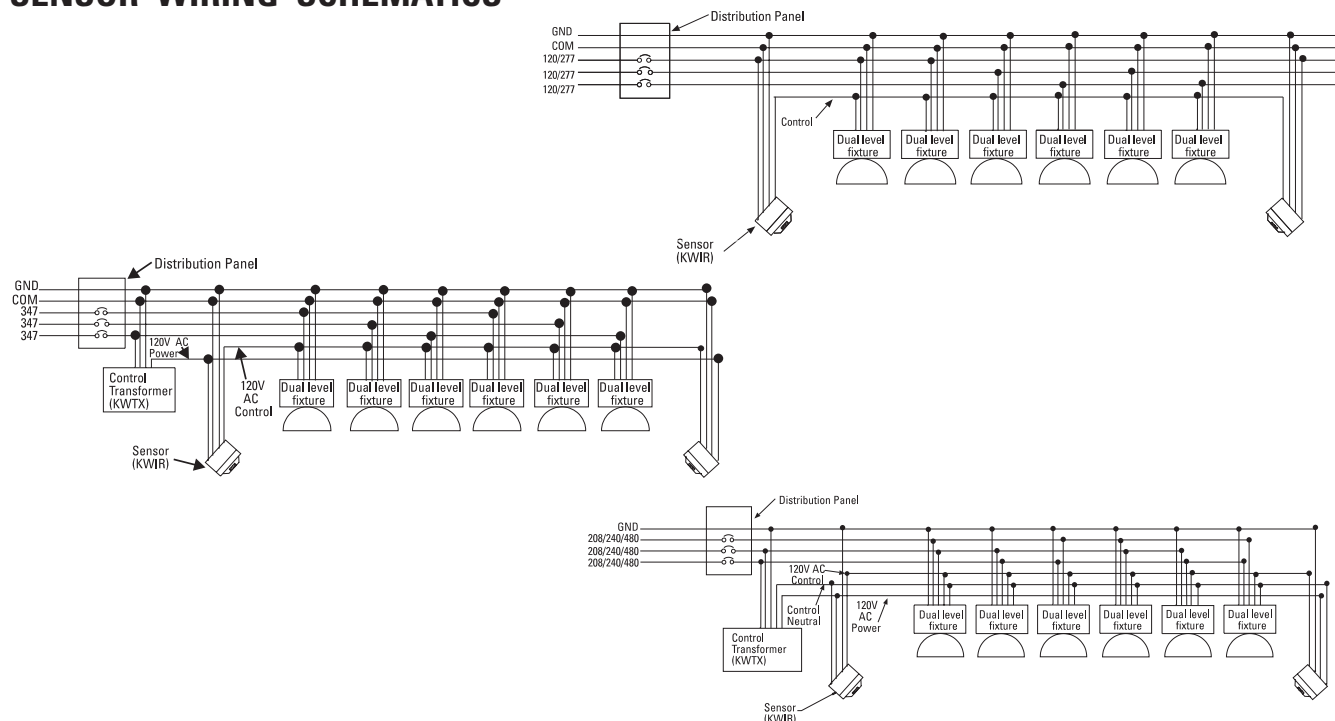
KWIR KiloWatch Motion Detector

SENSOR COVERAGE CHARTS



Note: Sensor coverage is shown for ideal, climate-controlled conditions. Reduce coverage 50% for ambient temperatures 90°-110°F. Reduce coverage 25% for ambient temperatures 80°-90°F and 110°-120°F. Coverage will vary as ambient temperature changes. Consult factory for sensor mounting heights above 30 feet.

SENSOR WIRING SCHEMATICS*



The KWIR Motion Detector is designed to mount to a typical gang box through a 1/2" knockout. Mount the gang box level with floor for easy installation and aiming. The KWIR is factory-set at its optimum aiming angle. Variations of the mounting gang box from level will require field adjustment of the sensor. The KWIR should be centered over the area of coverage and set back slightly from the start of the area of coverage as shown in the coverage charts. This will provide the necessary cutoff at the start of the coverage pattern. For specific application assistance, please contact your local Representative.

*208, 240, 347, 480V AC applications may require KWTX Control Voltage Transformer. See Sheet KWTX for additional information.