



LED MICROWAVE OCCUPANCY/DAYLIGHT SENSOR

KTS-MW3-UV-KO-K2

INSTALLATION INSTRUCTIONS

PLEASE FIND A QUALIFIED ELECTRICIAN FOR INSTALLATION. Please read the instructions before installation and use.

APPLICATION

For use with light fixtures to sense ambient light and motion. Performance parameters set by Keystone Remote Control (sold separately). Ideal for outdoor illumination needs.

LED MICROWAVE OCCUPANCY/DAYLIGHT SENSOR INSTALLATION

Warning: Install/use in accordance with appropriate electrical codes and regulations.

Warning: If you are not sure about any part of these instructions, consult a qualified electrician.

Warning: Controlling a load in excess of the specified ratings will damage the unit and pose risk of fire, electric shock, personal injury, or death. Check your load ratings to determine the unit's suitability for your application.

Warning: To avoid fire, shock, or death, turn off power at circuit breaker or fuse box and test to ensure that the power is off before wiring. Installation without cutting power may also cause sensor malfunction.

Cautions:

- Disconnect power when servicing luminaire or changing bulbs.
- Do not attempt to disassemble or repair.
- Clean outer surface with a damp cloth only.

ELECTRICAL RATING

Operating Voltage	12Vdc $\pm$ 2Vdc
Operating Current	30mA
Output	0–10V
Stand-By Power	<0.5W
Microwave Frequency	5.8GHz $\pm$ 75MHz
Microwave Power	<0.5W
Detection Angle	30°–150°
Mounting Height	Ceiling Mount: max Ø15m/49'
Detection Range	Ceiling Mount: max Ø15m/49'; Wall Mount: 20m/66'
Operating Temperature	–30°C/–22°F to 60°C/140°F
IP Rating	IP65

COMPONENTS INCLUDED IN KIT

Part	Quantity
Occupancy/Daylight Sensor	1
Mounting Hardware	1
Extension Neck (Optional)	1
Instruction Sheet	1

Caution: Before installing, make certain that AC power to the fixture is off.



ADJUSTABLE SETTINGS

Brightness	Sensitivity	Hold Time	Daylight Threshold	Stand-By Time	Stand-By Dimming Level
70%	20%	10 sec	10 Lux	1 min	10%
80%	50%	1 min	30 Lux	30 min	20%
90%	75%	10 min	50 Lux	60 min	30%
100%	100%	30 min	100 Lux	∞	50%
			Disable		

FACTORY PRESETS

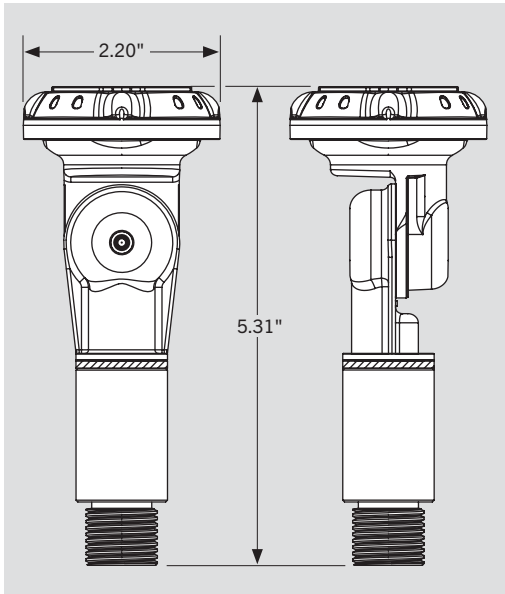
Hold Time	Daylight Threshold	Stand-By Time	Stand-By Dim Level
10 min	Disabled	∞	50%

STARTUP BEHAVIOR

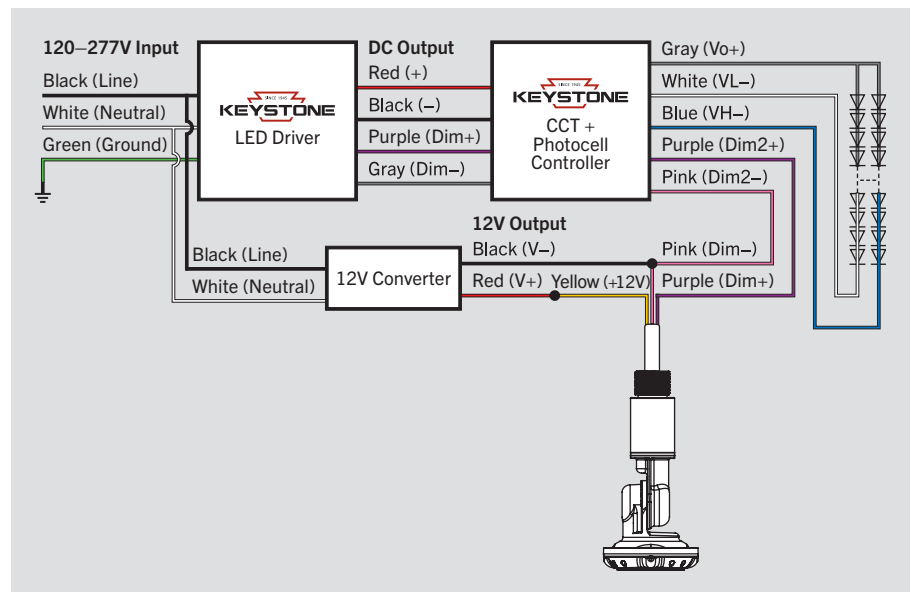
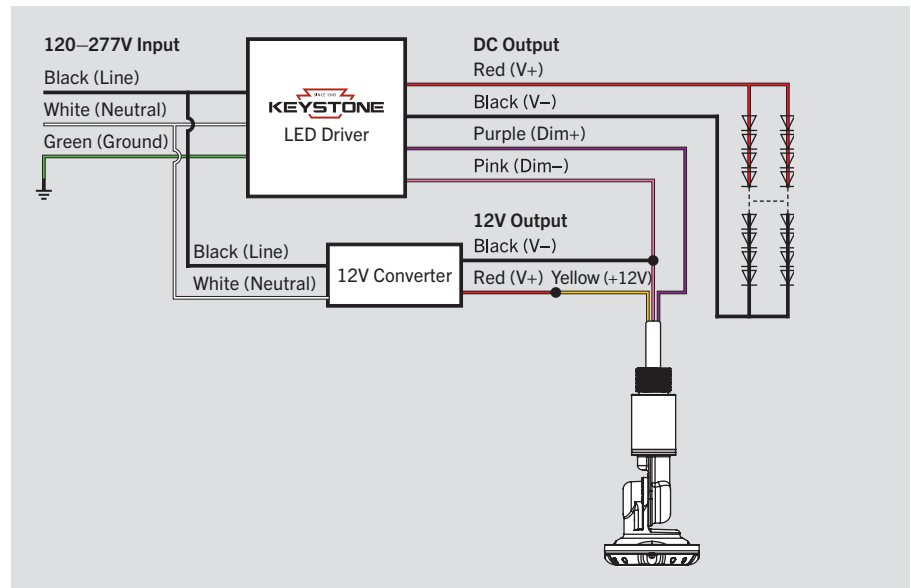
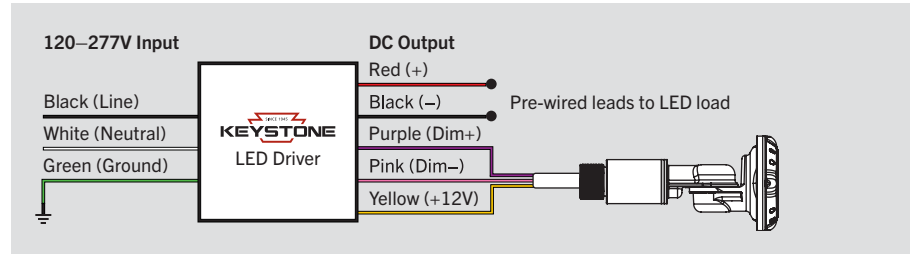
When fixture power is applied, the below startup sequence occurs

1. Light output 100%, red indicator on
2. After 10s, light output 50%, red indicator off
3. Sensor is now ready for normal operation

PHYSICAL SPECIFICATIONS

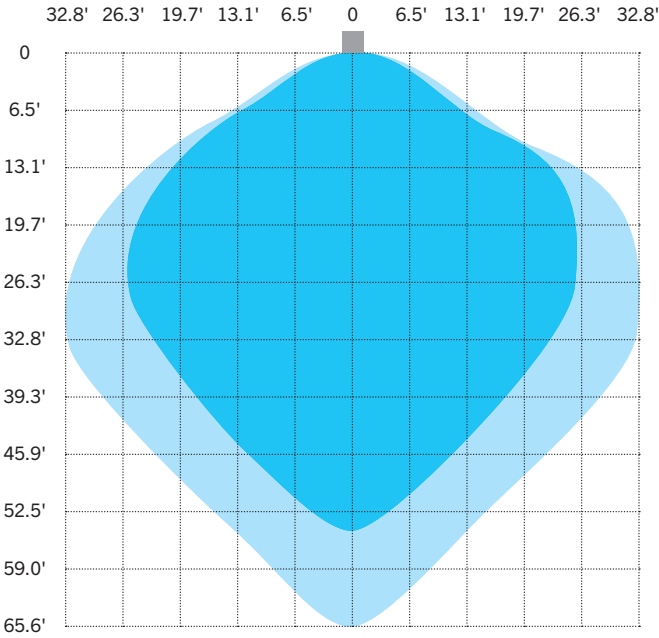


WIRING DIAGRAMS

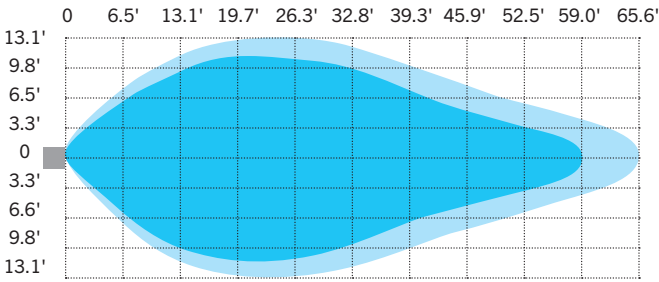


DETECTION COVERAGE

CEILING MOUNT (Top View)



WALL MOUNT (Top View)



Well-covered Covered

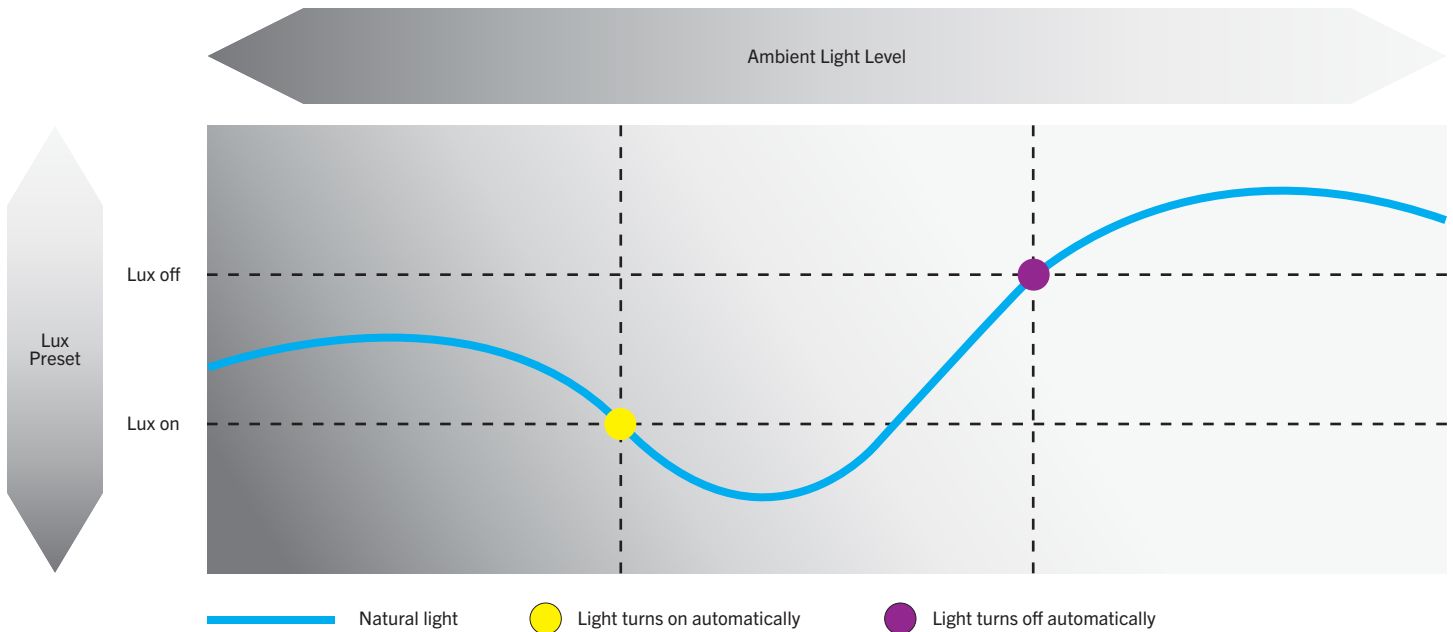
LUX ON/OFF SETTING

FUNCTION

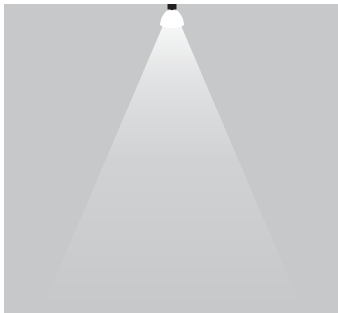
Partial discharge (PD) dual-technology differentiates artificial light brightness from natural light and automatically turns off light when ambient brightness exceeds preset lux level.

Lux-Off function preconditions:

- Stand-by time setting: ∞
- Stand-by dimming level setting: 10%, 20%, 30%, or 50%
- Daylight threshold setting: 10 Lux, 30 Lux, 50 Lux, or 100 Lux



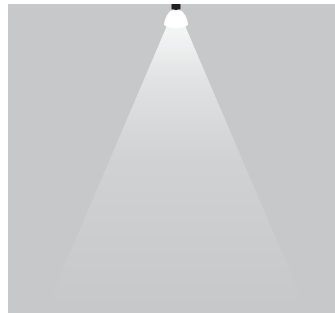
APPLICATION



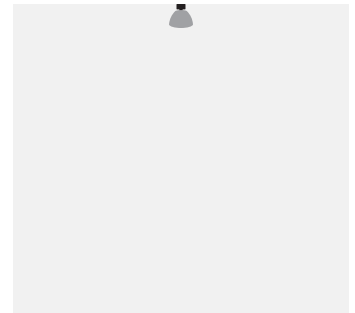
When ambient light is lower than preset lux level, lighting will turn on and remain at preset stand-by dimming level.



With insufficient ambient light, when motion is detected, lighting will turn on and remain at preset brightness level until motion is no longer detected for duration of preset hold time.



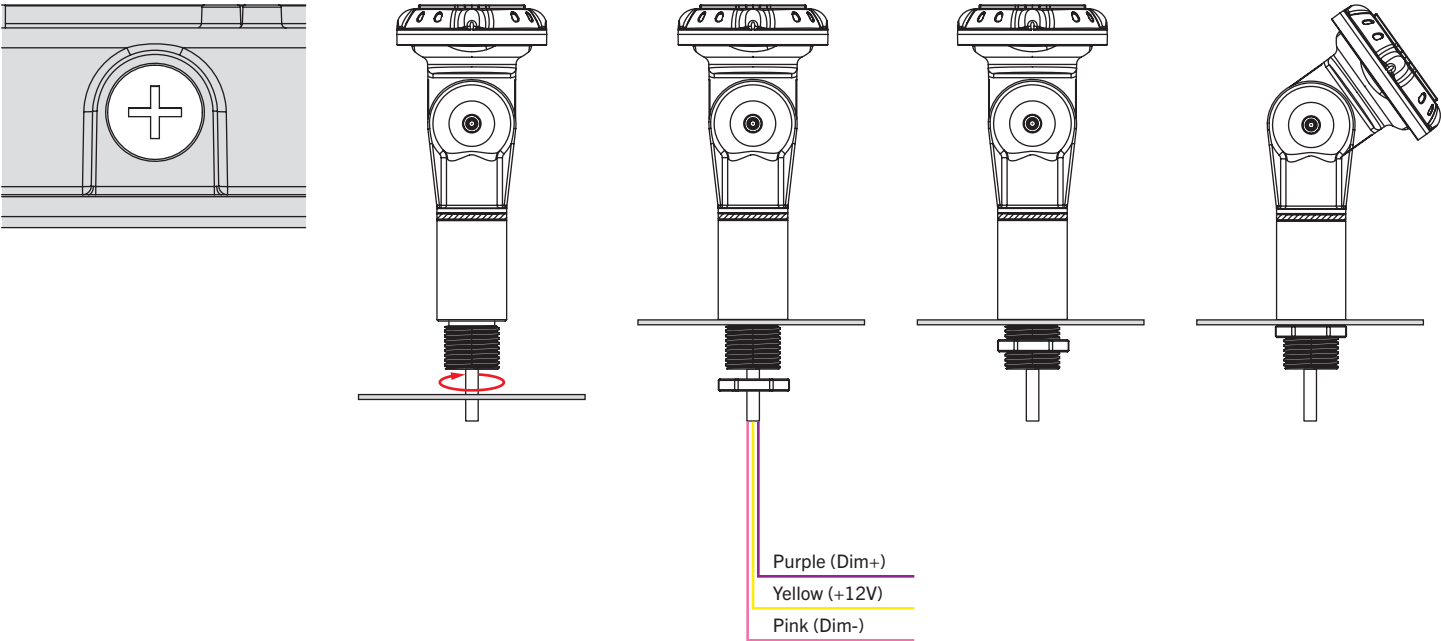
If no further motion is detected after duration of hold time, lighting will dim and remain at preset brightness level for duration of standby time or until ambient light level exceeds preset lux level.



When ambient light reaches preset lux level, lighting will turn off and remain off until ambient light level falls below preset lux level.

INSTALLATION

- 1. Ensure power is off to the fixture.
- 2. Remove 1/2" knock-out (KO) plug from applicable fixture.
- 3. Twist sensor into the KO plug hole.
- 4. Wire sensor to fixture.
- 5. Re-connect power when ready.
- 6. Adjust sensor angle to desired position.
- 7. Program desired settings as needed with Keystone Remote Control.



ACCESSORY (SOLD SEPARATELY)

REMOTE CONTROL

Catalog Number	Description	UPC	Easy Code
KTS-MW3-REMOTECONTROL	Remote Control for KTS-MW3-12V-PKO sensor, Sets/adjusts all sensor performance parameters	843654132020	XSR-61

