KEYSTONE | **XFiT**
SINCE 1945
LIGHT MADE EASY

KTS-MW3-UV-KO-K2
LED MICROWAVE OCCUPANCY/DAYLIGHT SENSOR

DESCRIPTION
LED Microwave Occupancy/Daylight Sensor |
Performance Parameters Set by Remote Control
(sold separately)

INPUT VOLTAGE: 12Vdc ± 2Vdc	
MICROWAVE FREQUENCY: 5.8 GHz ± 75MHz	
OUTPUT VOLTAGE: 0−10Vdc	
TRANSMIT POWER: <0.5mW	

UL CERTIFIED · RoHS Compliant · NLB TRUSTED WARRANTY · 5 YEAR WARRANTY

PRODUCT FEATURES
- Adjustable angle sensor head; Optional extension neck and white housing color; Ideal for vapor tight fixtures
- Partial discharge (PD) dual-technology differentiates artificial light brightness from natural light and automatically turns off light when ambient brightness exceeds preset lux level*
- Microwave sensing technology detects motion in the coverage area and automatically turns off light when motion is no longer detected*
- Powered by dedicated 12Vdc power source, included with sensor kit, OR 12V AUX tap directly from LED driver (if applicable)
- Installs through standard ½" knock-out (KO) on fixtures
- Adjustable performance parameters set by Keystone remote control (sold separately)
- Ambient operating temperature: −30ºC/−22ºF to 60ºC/140ºF
- IP Rating: IP65

Fixture only turns off if using a dim-to-off driver. Without dim-to-off driver, the fixture will dim down to its lowest allowable light level.

PERFORMANCE SPECIFICATIONS

Microwave Frequency	Input Voltage	Input Current	Output Voltage	Transmit Power	Stand-By Power	Max Mounting Height	Detection Angle	Detection Range
5.8GHz	12Vdc	30mA	0−10V	<0.5mW	<0.5W	49' (ceiling mount)	30º−150º	Ceiling mount: Ø 49' max Wall mount: 66' max

ADJUSTABLE SETTINGS

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

FACTORY PRESETS

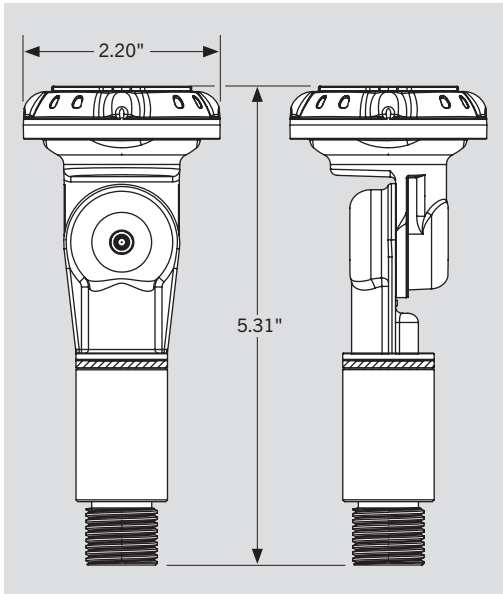| Hold Time	Daylight Threshold	Stand-By Time	Stand-By Dim Level
10 min	Disabled	∞	50%

STARTUP BEHAVIOR
When fixture power is applied, the below startup sequence occurs
1. Light output 100%, red indicator on
2. After 10s, light ouptut 50%, red indicator off
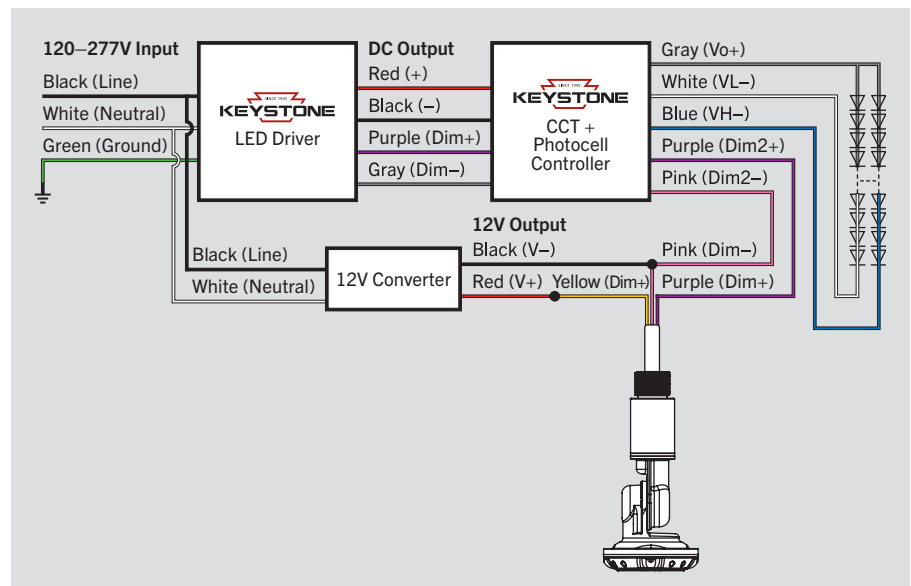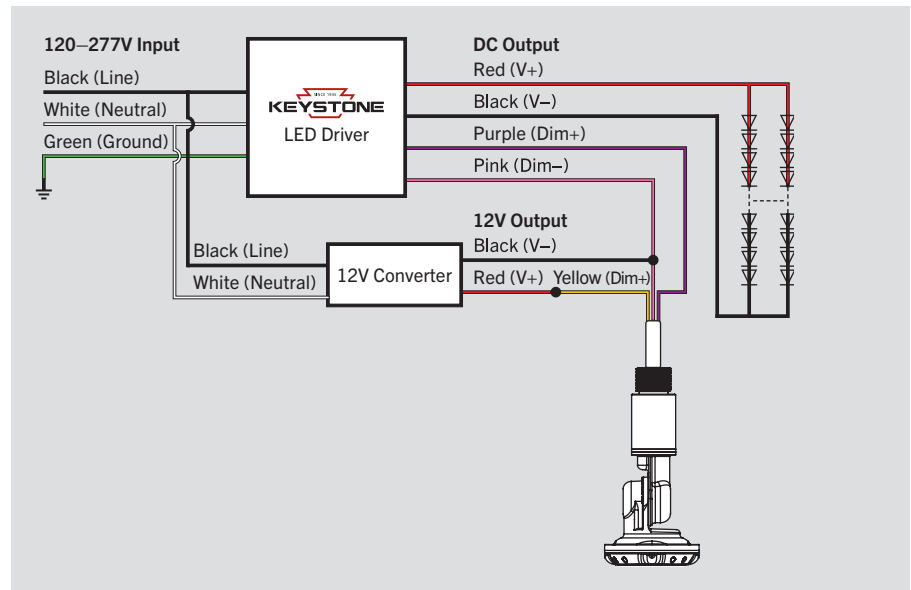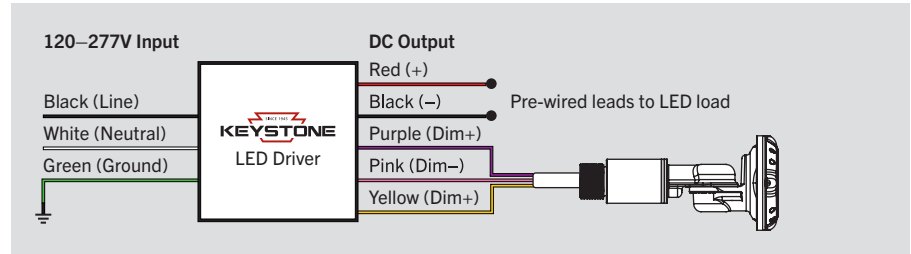**3.** Sensor is now ready for normal operation

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PHYSICAL SPECIFICATIONS

2.20"

5.31"

WIRING DIAGRAMS

120–277V Input
Black (Line)
White (Neutral)
Green (Ground)

DC Output
Red (+)
Black (−)
Purple (Dim+)
Pink (Dim−)
Yellow (Dim+)

LED Driver

Pre-wired leads to LED load

120–277V Input
Black (Line)
White (Neutral)
Green (Ground)

LED Driver

DC Output
Red (V+)
Black (V−)
Purple (Dim+)
Pink (Dim−)

Black (Line)
White (Neutral)

12V Converter

12V Output
Black (V−)
Red (V+) Yellow (Dim+)

120–277V Input
Black (Line)
White (Neutral)
Green (Ground)

LED Driver

DC Output
Red (+)
Black (−)
Purple (Dim+)
Gray (Dim−)

CCT +
Photocell
Controller

Gray (Vo+)
White (VL−)
Blue (VH−)
Purple (Dim2+)
Pink (Dim2−)

Black (Line)
White (Neutral)

12V Converter

12V Output
Black (V−)
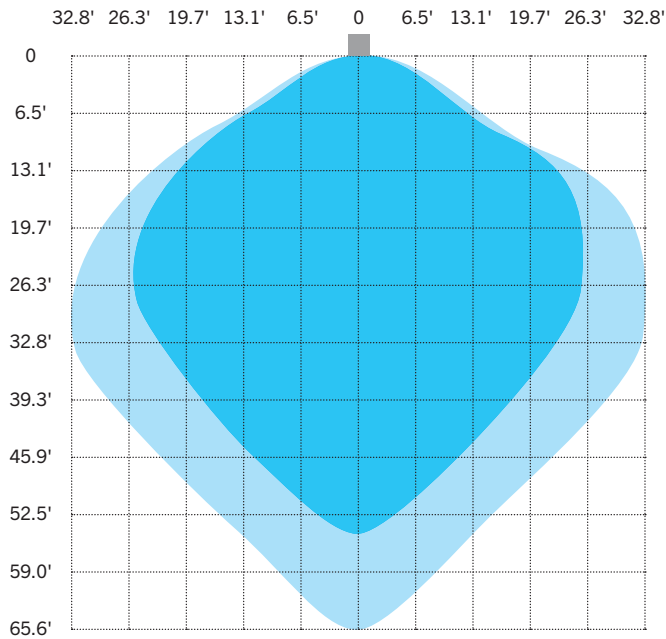Red (V+) Yellow (Dim+)

Pink (Dim−)
Purple (Dim+)
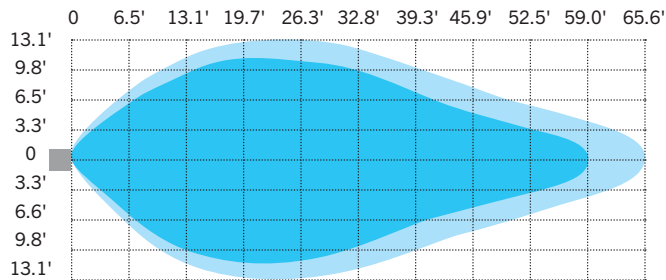
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LED MICROWAVE OCCUPANCY/DAYLIGHT SENSOR

DETECTION COVERAGE

CEILING MOUNT (Top View)

WALL MOUNT (Top View)

■ Well-covered   ■ Covered

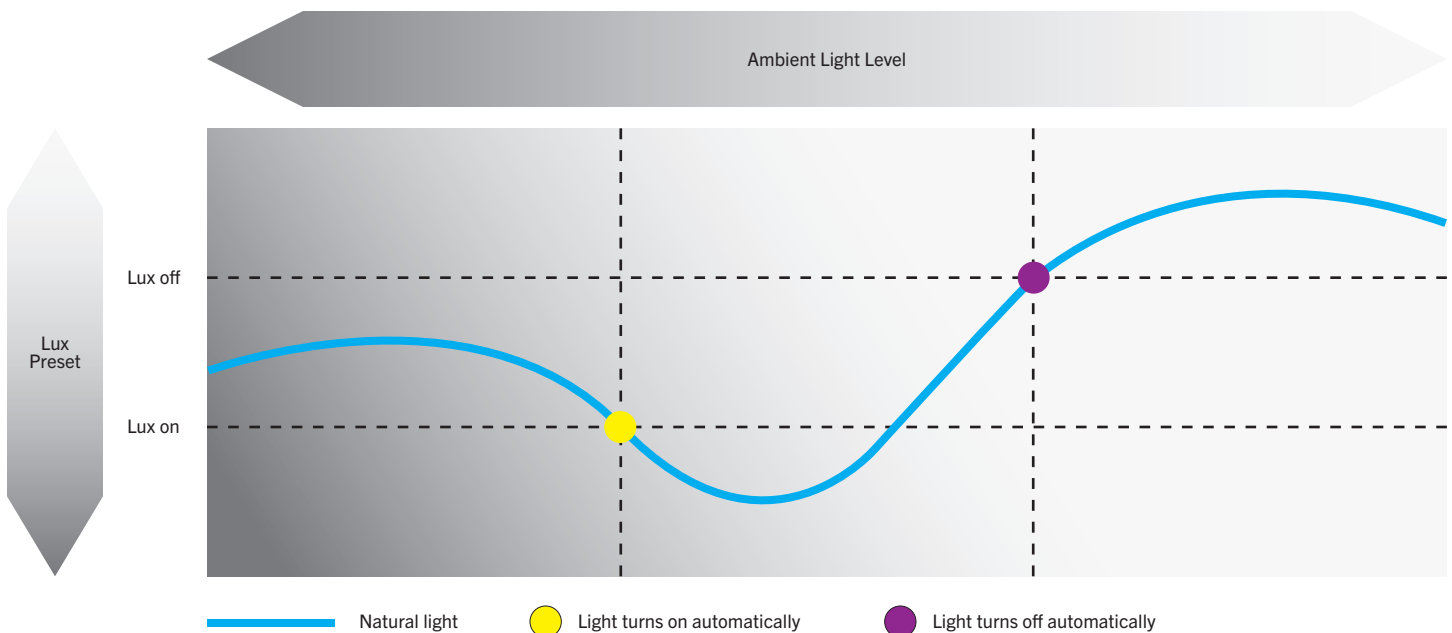# KTS-MW3-UV-K0-K2
LED MICROWAVE OCCUPANCY/DAYLIGHT SENSOR
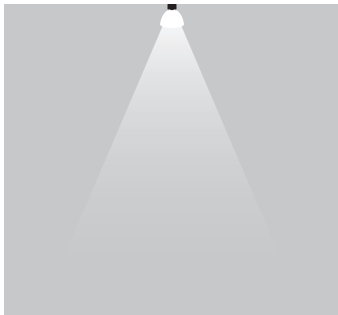
LUX ON/OFF SETTING

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

Ambient Light Level

Lux off

Lux Preset

Lux on

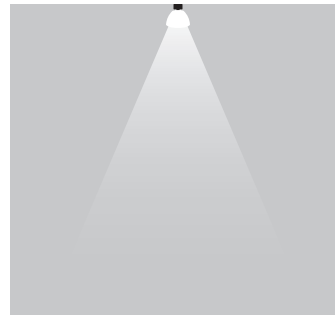— Natural light   ● Light turns on automatically   ● Light turns off automatically
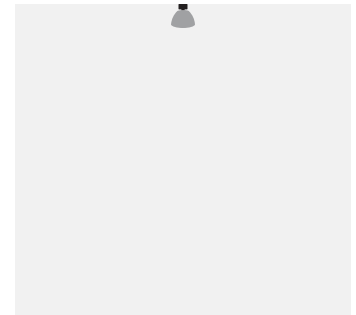
APPLICATION

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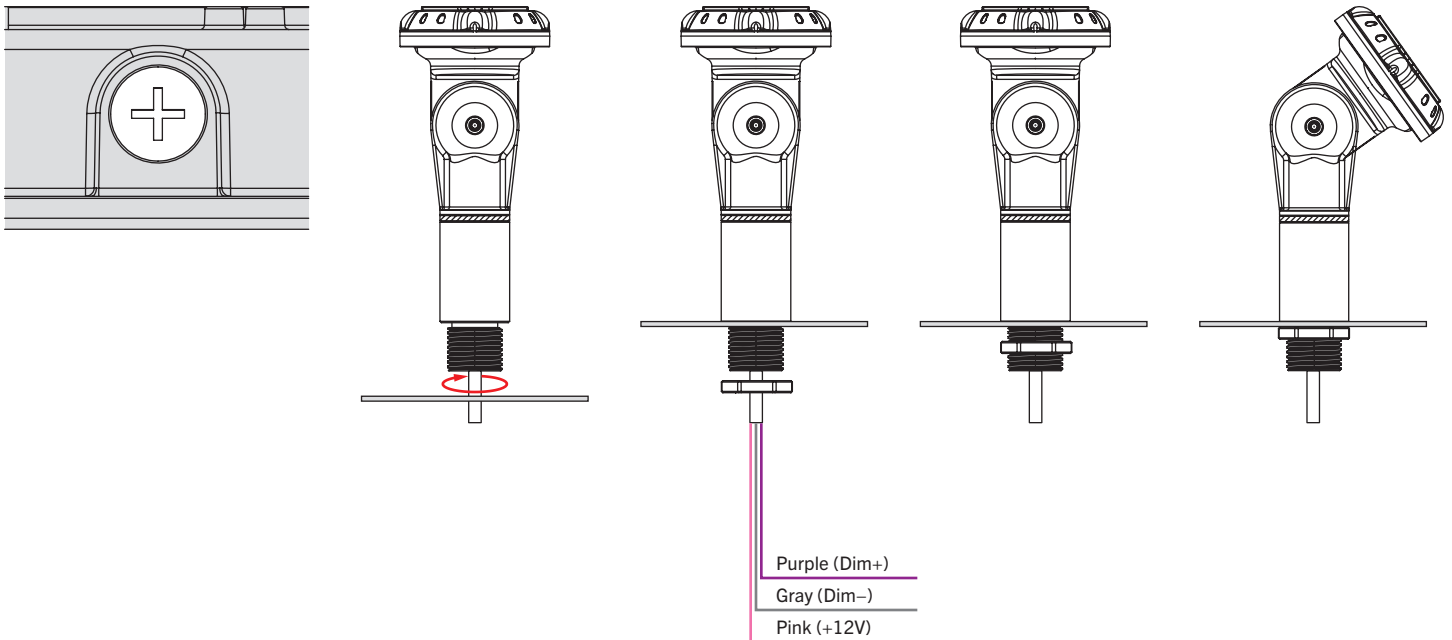
When ambient light reaches preset lux level, lighting will turn of and remain off until ambient light level falls below preset lux level.

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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.

Purple (Dim+)
Gray (Dim−)
Pink (+12V)

ACCESSORY (SOLD SEPARATELY)

REMOTE CONTROL

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

KTS-MW3-UV-KO-K2
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ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	Easy Code
KTS-MW3-UV-KO-K2	1	843654134352	TBV-76

CATALOG NUMBER BREAKDOWN

KTS-MW3-UV-KO-K2
| 1 | 2 | 3 | 4 | 5 |

1 Keystone Technologies Sensor
2 Microwave Sensor Form Factor
3 0−10V
4 Knock Out
5 Kit 2