LIGHTING CONTROLS

DUAL PIR/ULTRASONIC OCCUPANCY AND LIGHT SENSOR

DT-300 SERIES

DESCRIPTION

The Wattstopper low-profile DT-300 dual-technology occupancy sensor with light level sensor combines the benefits of passive infrared (PIR) and ultrasonic technologies. The sensor mounts in the ceiling with a flat, unobtrusive appearance and provides 360 degrees of coverage. Using SmartSet(TM) technology, the **DT-300** requires no adjustment at installation. SmartSet(TM) continuously monitors the controlled space to identify usage patterns.

Using this information, it automatically adjusts the time delay and sensitivity settings for optimal performance and energy efficiency. The sensor assigns short delays (as low as 5 minutes) for times when the space is usually vacant, and longer delays (up to 30 minutes) for busier times. The DT-305 is a lower cost version of the DT-300 without isolated relay or light level sensor.



- SmartSet(TM) automatically adjusts sensitivity and time delay
- · Walk-through mode turns lights off
- Ultrasonic diffusion and PIR technology
- LED occupancy indication
- · Pluggable terminal wiring
- · Light level sensing with setpoint

OPERATION

- PIR technology senses the difference between infrared energy from a human body in motion and the bacKground space. Ultrasonic technology uses the Doppler principle and high frequency (40 KHz) ultrasound to sense motion.
- Once lighting is on, detection by either technology holds lighting on.
- In normal operation, the DT-300 turns lighting on when configured that one or both the PIR and ultrasonic technologies detect occupancy.
- When no occupancy is detected for the length of the configurable time delay, lighting turns off.
- The DT-300 Light Sensor has a configurable setpoint (SP). When the setpoint is exceeded the light output goes to 24VDC to control a remote relay.

SPECIFICATIONS

Requires external DC power supply Supply Voltage DT300 24 V (AC/DC), ±10% @ 43 mA DT305 24 V (AC/DC), 10% @ 35 mA Output

DT-300 Aux Volts out, Isolated Contact and light output DT-305 Aux Volts out only on motion detect **Aux Output** Motion initiated (Int.) 24VDC output SPDT (300) Motion Int. contact, 30V (AC/DC) @ 1A Light Output (300) Adjustable 10-300 fc to initiate a 24VDC output Technology Passive Infra-Red (IR) with Fresnel Lens,

40KHz Ultrasonic Occupied Mode (Occ) Occ.-Auto ON with Single or both technologies with TD OFF

Approx. Coverage Pattern

DT-300 DT-305 Sensitivity Infrared Ultrasonic **Light SP (300)** Override OFF Delay Time (TD)

 $360^\circ,\,12^\prime$ ceiling/ 36^\prime dia. circle $360^\circ,\,12'$ ceiling/ 40' dia. circle Adjustable for both technologies 2 Dip switch settings Auto or Min POT Adjustment under cover

Adjustable 10-300 fc to initiate a 24VDC output Momentary DI input to simulate a "Motion Alert" DIP switches (5 seconds to 30 minutes)

Indication

Mounting

Color **Operating Temperature Operating Humidity** Wiring

Enclosure Rating Dimensions

Weight **Approvals** Warranty

LED, Red (PIR) /Green (Ultrasonic) with enabledisable selection

Ceiling 3.5" to 4" hole, Octagonal box or ceiling

direct with spring clips

White

DT-300

32° to 131°F (0° to 55°C) 10-95% RH non-condensing De-pluggable terminal strip, 4 (305)

or 8 (300) Indoor, No rating

4.50"Ø x 1.02"D (114.3mm x 25.9mm)

1.0 lb (0.46 Kg) UL File E101196

5 years



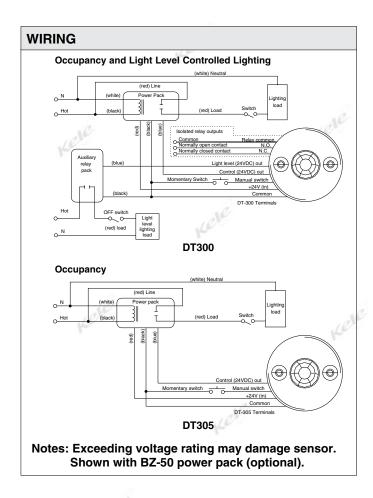
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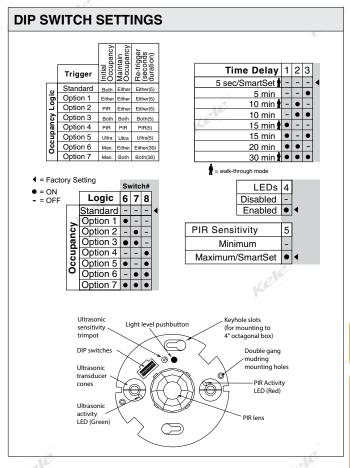
LIGHTING CONTROLS

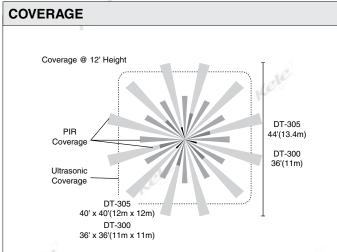
WATTSTOPPER DUAL-TECHNOLOGY OCCUPANCY AND LIGHT SENSOR

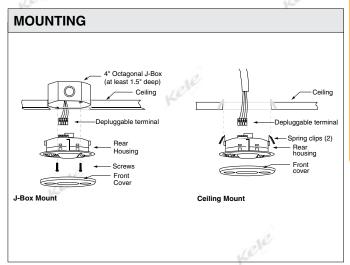
DT-300 SERIES











MODEL	DESCRIPTION
DT-300	Dual technology occupancy ceiling mount sensor with isolated relay and light level actuation
DT-305	Dual technology occupancy ceiling mount sensor with 24 VDC output only (no light level or relay)
	RELATED PRODUCTS
BZ-50	120-277 VAC to 24 VDC power pack with SPST Relay and 12-24VDC coil