OMNI® Low Voltage Dual Technology Ultrasonic and PIR

PROJECT INFORMATION

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The OMNI DT combines ultrasonic (US) and passive infrared (PIR) technologies to turn lighting on and off based on occupancy. This dual technology provides accurate turn-ons while virtually eliminating false-offs. This sensor features Hubbell Controls' patented IntelliDAPT® technology, which makes all the sensor adjustments automatically.

Throughout the product’s lifespan, IntelliDAPT software analyzes the controlled area and makes digital adjustments to sensitivity and timer settings. Occupancy sensors with IntelliDAPT technology provide a maintenance-free install-and-forget operation.

PRODUCT FEATURES

- IntelliDAPT self-adaptive technology - no manual adjustment required
- All-digital dual technology (ultrasonic [US] and passive infrared [PIR]) sensor
- Non-volatile memory for sensor settings
- 500–2,000 square-foot coverage area (depending on model)
- Optional relay and photocell control
- Optional Quick to Install (QTI) connector
- UL and cUL listed
- California Title 24 compliant
- Five-year limited warranty
- Low Voltage 24 Vdc
General Specifications

IntelliDAPT® Technology
- Auto reset from test setting
- Self-adjusting timer
- Self-adjusting passive infrared thresholds
- Automatic false-on/false-off corrections

LED lamp
- Red - infrared motion
- Green - ultrasonic detection

Timer timeout
- Automatic mode: 8–30 min. (self-adjusts based on occupancy)
- Test mode: 8 seconds (for an easy check at installation)

Ultrasonic (US) output
- OMNIDT500: 40kHz output
- OMNIDT1000 and OMNIDT2000: 32kHz

Passive infrared (PIR)
- Dual-element pyrometer and 12-element cylindrical segmented Fresnel lens, integral filter excludes excess PIR energy from sunlight

RP option
- Relay and photocell included
- Relay: N/O + N/C contacts; SPDT; 500 mA rated @ 24VDC; three-wire isolated relay
- Photocell: adjustable natural-light override ranges from 0 to 100 foot-candles (0 to 1,000 lux)

Coverage
- 500 - 2,000 square feet

Power requirements
- 24VDC, 33mA (uses UVPP and MP- Series power pack- not included)

Output
- 24VDC active high-logic control signal with short circuit protection and optional dry contact (see RP options)

Operating environment
- Indoor use only
- Operating temperature: 32° to 104°F (0° to 40°C)
- Relative humidity (non-condensing): 0% to 95%

Construction
- Casing- rugged, high-impact, injection-molded plastic KJB ABS
- Cycolac (UL-945VA) flame class rating, UV inhibitors
- Color-coded leads are 6" long [152.4 mm]

Dimensions
- Ø4.5" x 1.5" h [Ø114.3mm, 38.1mm h]

Weight
- 5.0 oz [142g]

Color
- Off-white

Mounting
- Mounting base provided
- Recommended mounting height: 8ft with a max mounting height of 12ft.

Certifications
- UL and cUL listed

Warranty
- Five-year limited

Ordering Information

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