

WDT301

Optional Neutral Dual Technology Multi-Way Commercial Occupancy Sensor

The WDT301 dual technology wall switch sensor turns lights OFF and ON based on occupancy. It combines the benefits of passive infrared (PIR) and ultrasonic detection technologies. The WDT301 replaces existing wall switches and fits behind a standard decorator wall plate.

The WDT301 sensor is great for retrofit projects and dual technology has the flexibility to work in a variety of applications where one technology alone may not be sufficient. Common applications include small and executive offices, small and medium conference rooms, small classrooms and lunch/break rooms. In addition, dual technology sensors are the perfect choice for ADA-compliant buildings due to lower mounting height requirements.



FEATURES & BENEFITS

High sensitivity and dense coverage
for exceptional performance.

**Allows multi-way control from one of
up to four control locations**

Color-matched lens and low profile
for appealing design



WDT301W

**Optional neutral connection with break
off tab** to expose neutral terminals.

120/277 VAC

Defaults to Manual-ON operation
for maximum energy savings

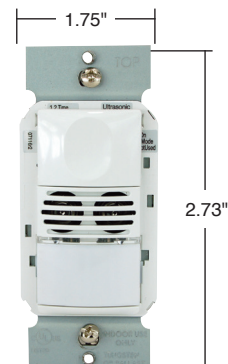
- Complies with 2011 NEC® requirements
- Zero-crossing for long relay life
- Vandal-resistant lens combines precise coverage with durability
- Selectable walk-through mode turns lights off three minutes after initial occupancy if no motion is detected after the first 30 seconds
- Test mode allows quick and easy adjustments
- Selectable audible alert for impending shutoff
- In automatic mode, sensor returns automatically to Auto-ON after lights are turned off manually; ideal for presentations
- Four occupancy logic options to customize control to meet application needs
- Optional light-level sensing with simple setup
- Service mode allows sensor to operate as a service switch in the unlikely event of a failure
- Sensor coverage tested to NEMA Guide Publication WD 7-2000

ORDERING INFORMATION

| Catalog No. | Description | Voltage | Load Rating | Coverage | Color |
|---|---|------------------------------------|---|-------------|--------------|
| Dual Technology Wall Switch Occupancy Sensor | | | | | |
| WDT301I | Passive Infrared & Ultrasonic Technologies Wall Switch Sensor | 120VAC; 50/60Hz or 277VAC; 50/60Hz | 120VAC, 0-1000W ballast, LED, tungsten, 1/6 hp or @ 277VAC 0-1200W ballast, LED, 1/6 hp | 1050 sq ft. | Ivory |
| WDT301W | | | | | White |
| WDT301BK | | | | | Black |
| WDT301GRY | | | | | Gray |
| WDT301LA | | | | | Light Almond |

TECHNICAL SPECIFICATIONS

- 120/277VAC; 50/60Hz, 1/6 hp
@ 120VAC, 0-1000W ballast, LED, and tungsten
@ 277VAC, 0-1200W ballast and LED
- Time delays: 5, 15 or 30 minutes, walk-through, test-mode/20 minutes
- Sensitivity adjustment: PIR (high/low), Ultrasonic (fully variable)
- Coverage: Major motion, PIR 35' x 30', Ultrasonic 20' x 20'
Minor motion, PIR 20' x 15', Ultrasonic 15' x 15'
- Dimensions (L x W x D): 2.73" x 1.75" x 1.81" (69mm x 44mm x 46mm)
- UL and cUL listed
- Five year warranty



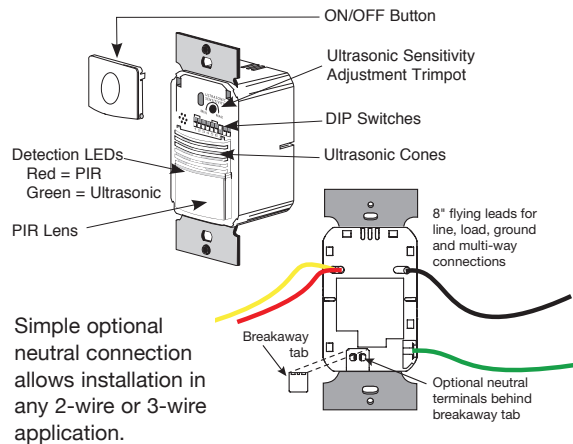
PASS & SEYMOUR®

Dual Technology Wall Switch Occupancy Sensor



CONTROLS & INSTALLATION

Product Controls & Neutral Option



DIP Switch Settings

| Time Delay | 1 | 2 |
|-------------|---|---|
| Test/20 min | ↓ | ↓ |
| 5 minutes | ↓ | ↑ |
| 15 minutes | ↑ | ↓ |
| 30 minutes | ↑ | ↑ |

| Walk-Through | 3 |
|--------------|---|
| Enabled | ↑ |
| Disabled | ↓ |

| PIR Sensitivity | 4 |
|-----------------|---|
| Low, 50% | ↑ |
| High | ↓ |

↑ = ON ↓ = OFF

On Mode

Time Delay Trigger Mode Relay 1 Relay 2

Walk-Through Audible Alerts

PIR Sensitivity

| Trigger Mode | Initial Occupancy | Maintain Occupancy | Re-trigger (seconds duration) | 5 | 6 |
|--------------|-------------------|--------------------|-------------------------------|---|---|
| Standard | Both | Either | Either (5) | ↓ | ↓ |
| Option A | PIR | Either | Either (5) | ↓ | ↓ |
| Option B | PIR | PIR | PIR (5) | ↑ | ↓ |
| Option C | Both | Both | Both (5) | ↑ | ↑ |

| Audible Alert | 7 |
|---------------|---|
| Enabled | ↑ |
| Disabled | ↓ |

| Relay 1 On Mode | 8 |
|-----------------|---|
| Manual On | ↑ |
| Auto On | ↓ |

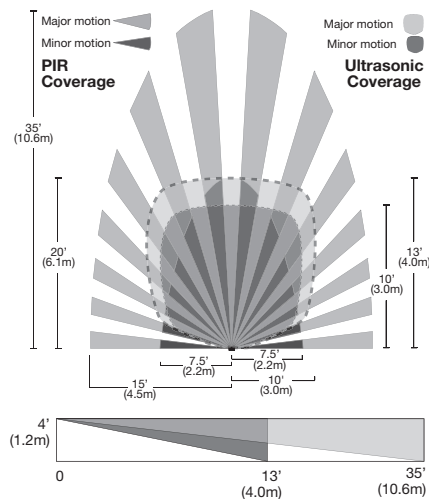
WDT321 ONLY

| Relay 2 On Mode | 9 |
|-----------------|---|
| Manual On | ↑ |
| Auto On | ↓ |

Factory Settings:
 ▲ All models
 ▲ WDT301
 ▲ WDT321

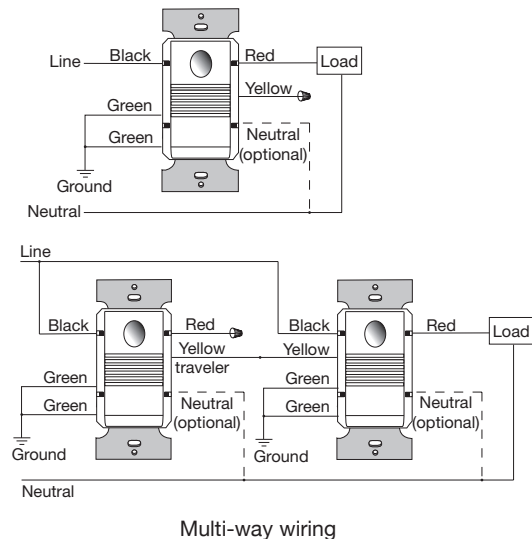
COVERAGE & WIRING

Coverage Pattern



For best performance, use this sensor in spaces no larger than 18' x 15'.

Wiring Diagrams



ALSO AVAILABLE...

- | | | | |
|--------------------------------------|-------------------------------------|----------------------------------|--------------------------------------|
| ■ Plug Load RF Receptacles | ■ Straight Blade Plugs & Connectors | ■ Weatherproof Boxes & Covers | ■ Flexcor® Wire Mesh Grips |
| ■ Plug Load RF Signal Pack | ■ Turnlok® Locking Devices | ■ IEC 309 Industrial Products | ■ Bulk Solutions |
| ■ Plug Load Controllable Receptacles | ■ Hospital Grade Devices | ■ TVSS & Isolated Ground Devices | ■ Ground Continuity Monitoring (GCM) |



Electrical Wiring Systems

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