New Dual Technology Wall Switch Sensors give you the most sensitive and consistent way to manage lighting energy consumption. They do it through dual technology design that combines both passive infrared (PIR) and ultrasonic technologies. This combination gives you two ways to detect occupancy and turn lights on and off automatically. PIR technology detects the infrared energy from a human body in motion, and ultrasonic technology spreads coverage over a wider area and detects smaller movements to time the ON/OFF function more efficiently.

Dual Technology Wall Switch Sensors are ideal for a wide variety of commercial applications, from small offices and executive suites to conference rooms and break rooms.

**Features & Benefits**

- **Sensitivity adjustment.**
- **Self-adaptive technology** for automatic intuitive energy savings.
- **Color-matched lenses and lwo profile** for appealing design.
- **Fast, easy installation/switch-out.**
- **Zero crossing switching** for long relay life.
- **Choice of Auto-ON or manual-ON operation.**
- **High sensitivity and dense coverage** for exceptional performance.
- **PIR Coverage**
  - Major motion
  - Minor motion
  - 7.5' (2.2m)
  - 15' (4.5m)
  - 20' (6.1m)
  - 35' (10.6m)
- **Ultrasonic Coverage**
  - Major motion
  - Minor motion
  - 7.5' (2.2m)
  - 15' (4.5m)
  - 20' (6.1m)

**Field Uses/Vertical Markets**

- Industrial
- Institutional
- Health Care
- Retail/Office
- Education
- Hospitality/Lodging

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# Catalog Information

## Commercial Occupancy Sensors

### Dual-Tech Wall Switch Sensors

Passive Infrared, Ultrasonic & Dual Technology

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Voltage</th>
<th>Load Rating</th>
<th>Coverage</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>WDT-100W</td>
<td>Dual Technology Wall Switch Sensor</td>
<td>120/230/277 VAC 50/60 Hz</td>
<td>120 VAC, 0-800 ballast or tungsten, 1/6hp 230/277 VAC, 0-1200W ballast</td>
<td>1050 Sq. Ft.</td>
<td>White</td>
</tr>
<tr>
<td>WDT-100BK</td>
<td>Dual Technology Wall Switch Sensor</td>
<td>120/230/277 VAC 50/60 Hz</td>
<td>120 VAC, 0-800 ballast or tungsten, 1/6hp 230/277 VAC, 0-1200W ballast</td>
<td>1050 Sq. Ft.</td>
<td>Black</td>
</tr>
<tr>
<td>WDT-100G</td>
<td>Dual Technology Wall Switch Sensor</td>
<td>120/230/277 VAC 50/60 Hz</td>
<td>120 VAC, 0-800 ballast or tungsten, 1/6hp 230/277 VAC, 0-1200W ballast</td>
<td>1050 Sq. Ft.</td>
<td>Gray</td>
</tr>
<tr>
<td>WDT-100LA</td>
<td>Dual Technology Wall Switch Sensor</td>
<td>120/230/277 VAC 50/60 Hz</td>
<td>120 VAC, 0-800 ballast or tungsten, 1/6hp 230/277 VAC, 0-1200W ballast</td>
<td>1050 Sq. Ft.</td>
<td>Light Almond</td>
</tr>
<tr>
<td>WDT-100I</td>
<td>Dual Technology Wall Switch Sensor</td>
<td>120/230/277 VAC 50/60 Hz</td>
<td>120 VAC, 0-800 ballast or tungsten, 1/6hp 230/277 VAC, 0-1200W ballast</td>
<td>1050 Sq. Ft.</td>
<td>Ivory</td>
</tr>
<tr>
<td>WDT-200W</td>
<td>Dual Technology Wall Switch Sensor</td>
<td>120/230/277 VAC 50/60 Hz</td>
<td>120 VAC, 0-800 ballast or tungsten, 1/6hp 230/277 VAC, 0-1200W ballast</td>
<td>1050 Sq. Ft.</td>
<td>White</td>
</tr>
<tr>
<td>WDT-200BK</td>
<td>Dual Technology Wall Switch Sensor</td>
<td>120/230/277 VAC 50/60 Hz</td>
<td>120 VAC, 0-800 ballast or tungsten, 1/6hp 230/277 VAC, 0-1200W ballast</td>
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</tr>
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</table>

For more information on these and other P&S products refer to our Catalog or visit our web site.

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Commercial Occupancy Sensors
Dual-Tech Wall Switch Sensors
Passive Infrared, Ultrasonic & Dual Technology

TECHNICAL SPECIFICATIONS

3rd Party Compliance
cULus Listed, UL508 and C22.2 No. 14. Conforms to NEMA WD-1 and WD-6, California Title 24 Compliant.

Performance

<table>
<thead>
<tr>
<th>Electrical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>120/230/277 VAC</td>
</tr>
<tr>
<td>Maximum Supply Voltage</td>
<td>277 VA</td>
</tr>
<tr>
<td>Frequency</td>
<td>50-60 Hz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sensor</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>43mm x 74mm x 45mm</td>
</tr>
<tr>
<td>Technology</td>
<td>Passive Infrared &amp; Ultrasonic</td>
</tr>
<tr>
<td>PIR Adjustment</td>
<td>Two Settings – Maximum (100%) and Minimum (50%)</td>
</tr>
<tr>
<td>Ultrasonic Adjustment</td>
<td>Ultrasonic sensitivity can be adjusted using a trimpot. Output frequency of transmitter is fixed at 40kHz</td>
</tr>
<tr>
<td>Time Delay</td>
<td>Adjustable 5 min. to 30 min.</td>
</tr>
<tr>
<td>Light Level Adjustment</td>
<td>Yes, 8fc to 180+fc</td>
</tr>
<tr>
<td>Spectral Response</td>
<td>6 to 14 Pm</td>
</tr>
<tr>
<td>Field of View</td>
<td>88°; 110° Vertical, 360° Horizontal</td>
</tr>
<tr>
<td>Frequency</td>
<td>50-60 Hz</td>
</tr>
<tr>
<td>Coverage</td>
<td>1050 square feet, 180°</td>
</tr>
<tr>
<td>Indicator Light(s)</td>
<td>Red &amp; Green LEDs</td>
</tr>
<tr>
<td>Lens Type</td>
<td>Two horizontal layers</td>
</tr>
<tr>
<td>Sensor Type</td>
<td>Multi-directional transmitter/receiver with quartz oscillator</td>
</tr>
<tr>
<td>Alerts</td>
<td>Selectable, Audible</td>
</tr>
</tbody>
</table>

Environment

| Temperature Range | WDT-100, WDT-200 (0°C to 55°C) |

Mechanical

| Enclosure Material | ABS KJW Flame retardant Cycolac, 940-0 or equivalent RoHS compliant |

Warranty

5 Years
COMPLEMENTARY DEVICES & ACCESSORIES

PLUGTAIL™ DEVICES
- Extra Heavy-Duty Spec Grade
- Extra Heavy-Duty Hospital Grade
- Extra Heavy-Duty Tamper-Resistant

STRAIGHT BLADE RECEPTACLES
- Extra Heavy-Duty
- Heavy-Duty
- Hard Use
- Construction Grade
- Construction Grade Leaded
- Commercial Grade

DECORATOR DEVICES
- Construction Grade Switches
- Specification Grade Combo Switches
- Construction Grade Receptacles
- Commercial Grade Receptacles
- Specification Grade Hallway Lights

SWITCHES
- Heavy-Duty Toggle
- Heavy-Duty Lighted Toggle
- Heavy-Duty Security
- Heavy-Duty Locking
- Construction Grade Toggle
- Commercial Grade Toggle

GFCIs
- Specification Grade

WALL PLATES
- TradeMaster® Thermoplastic Nylon
- Screwless Polycarbonate
- Stainless Steel
- Brass
- Aluminum
- Dustproof Stainless Steel Covers

ALSO AVAILABLE...
- Hospital Grade Devices
- Straight Blade Plugs & Connectors
- Weatherproof Boxes & Covers
- Flexcor® Wire Mesh Grips
- TVSS & Isolated Ground Devices
- Turnlok® Locking Devices
- IEC 309 Industrial Products
- Ground Continuity Monitoring (GCM)
- Bulk Solutions

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