Eaton’s Arrow Hart
Universal Dimmers and Sensors
Reliable lighting control for commercial installations
Eaton’s sensors and dimmers are cost-effective solutions for commercial lighting control installations

With Eaton’s solutions you have the right control every time.

Eaton’s wiring devices now offer code-compliant, commercial wallbox lighting control devices that combines dimming technology & energy savings while helping to reduce installation costs for your commercial buildings.

1 Universal Phase Selectable Dimmer - SUF7
The premium solution combines latest dimming technology & energy savings in ONE Eaton device. Universal Phase Selectable Dimmers allow the user to select between forward & reverse phase-cut dimming which helps in expanding lamp compatibility. Dimmers can save energy by reducing the flow of power to the fixture & allowing lights to operate at lower power levels. Operating at lower power levels helps in reducing stress caused on the lights and increase the life span of the fixtures.

2 Universal Slide Dimmer - SUT7
The high wattage solution for dimming the most common lighting loads. Universal Slide Dimmer ratings are among the industry’s leading wattage ratings for dimmable LEDs & CFLs.

3 0-10V Dimmer Sensor - OS10D7, VS10D7
The ultimate solution to reduce energy and installation cost. Replace a switchpack, sensor & 0-10V dimmer with ONE Eaton 0-10V Dimmer Sensor.

Code Compliance: Solutions to help comply with energy codes including ASHRAE 90.1 & California Title 20
Universal phase selectable slide dimmers

Product description
Single pole & 3-way
Dimmable LED/CFL/FLR; 450W, 120V/AC, 450W, 277V/AC
INC/HAL/ELV; 650W, 120V/AC, 1000W, 277V/AC

Design features
- Select between forward and reverse phase cut dimming for the most optimal dimming compatibility
- Dual rated for 120/277V/AC
- Adjustable low-end trimming for increased lamp compatibility
- No de-rating for LED/CFL loads in multi-gang applications
- Integrated full slide control for easy, precise operation
- Ideal for commercial and residential applications
- Neutral required for installation
- Fits standard decorator wallplates
- Do Not use with MLV loads

Universal phase selectable slide dimmers

<table>
<thead>
<tr>
<th>Description</th>
<th>Compatible lamp types</th>
<th>Watt</th>
<th>V/AC</th>
<th>Color suffix</th>
<th>Catalog no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal phase selectable slide dimmer</td>
<td>LED/CFL/FLR</td>
<td>450</td>
<td>120</td>
<td>BK, LA, V, W</td>
<td>SUF7-__</td>
</tr>
<tr>
<td></td>
<td></td>
<td>450</td>
<td>277</td>
<td>BK, GY, LA, V, W</td>
<td></td>
</tr>
<tr>
<td>INC/HAL/ELV</td>
<td>650</td>
<td>120</td>
<td>277</td>
<td>BK, LA, V, W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Universal slide dimmers (Forward Phase-cut)

Product description
Single pole & 3-way
Dimmable LED/CFL/FLR; 450W, 120V/AC, 600W, 277V/AC
INC/HAL/MLV/ELV; 720W, 120V/AC, 1000W, 277V/AC

Design features
- Universal dimming of most common lighting loads (phase-cut)
- Dual rated for 120/277V/AC
- Adjustable low-end trimming for increased lamp compatibility
- No de-rating for LED/CFL loads in multi-gang applications
- Integrated full slide control for easy, precise operation
- Ideal for commercial and residential applications
- No neutral required for installation
- Fits standard decorator wallplates

Universal slide dimmers

<table>
<thead>
<tr>
<th>Description</th>
<th>Compatible lamp types</th>
<th>Watt</th>
<th>V/AC</th>
<th>Color suffix</th>
<th>Catalog no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal slide dimmer (forward phase-cut)</td>
<td>LED/CFL/FLR</td>
<td>450</td>
<td>120</td>
<td>BK, LA, V, W</td>
<td>SUT7-__</td>
</tr>
<tr>
<td></td>
<td></td>
<td>600</td>
<td>277</td>
<td>BK, LA, V, W</td>
<td></td>
</tr>
<tr>
<td>INC/HAL/ELV</td>
<td>720</td>
<td>120</td>
<td>277</td>
<td>BK, LA, V, W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Color ordering information
For ordering devices, include Catalog no. followed by the color suffix: BK (Black), GY (Gray), LA (Light Almond), V (Ivory), W (White)

Compliances, specifications and availability are subject to change without notice.
0-10V Dimmer sensors

Occupancy & vacancy dimmer sensors

Product description
Single pole & 3-way
10A @ 120V/AC
8A @ 277V/AC
0-10VDC FLR and LED ballasts

Design features
- 3 in 1 device combining dimming, switching and motion sensing
- Digital PIR sensor for occupancy (Auto ON/Auto OFF) and vacancy (Manual ON/Auto OFF) sensing
- Provides 180 degree field of view and 1000 sq. ft. of major motion coverage
- Full-range preset dimming control provided with horizontal dim/bright bar
- Green LED indicates motion detection
- Selectable ambient light override in occupancy sensor models
- Selectable time delay of 15 seconds (Test mode, changes to 2 minutes after 2 minutes of powering up), 5 minutes (factory default), 15 minutes and 20 minutes
- Occupancy Sensor version can be toggled between Auto ON/Auto OFF or Manual ON/Auto OFF
- Vacancy sensor meets California Title 20 (VS10D7 only)
- Compatible with any decorator wallplate or screwless decorator wallplate
- Neutral required for installation of device

<table>
<thead>
<tr>
<th>Occupancy &amp; vacancy dimmer sensors</th>
<th>Compatible lamp types</th>
<th>Rating V/AC</th>
<th>Color suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy sensor &amp; dimmer with LED</td>
<td>0-10VDC LED/FLR</td>
<td>120W 2200V</td>
<td>BK, GY, LA, V, W</td>
</tr>
<tr>
<td>Vacancy sensor &amp; dimmer with LED</td>
<td>0-10VDC LED/FLR</td>
<td>120W 2200V</td>
<td>BK, GY, LA, V, W</td>
</tr>
</tbody>
</table>

Color ordering information
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Decorators & slide dimmers

Product description

Single pole & 3-way
1200W @ 120V/AC
1600W @ 277V/AC
0-10VDC FLR and LED ballasts

Design features

- Preset feature allows user to return to previous light level when turning lights ON
- Integrated full-slide control for easy, precise operation
- Can be wired as single pole or 3-way
- Neutral is not required for installation of device
- Adjustable high-level trim setting for optimal lamp compatibility
- Decorator dimmers have removable faceplates to allow for color changes and each package includes three colors
- Color change kits (DF10P only)
- Compatible with dimmable LED and fluorescent 0-10V ballasts
- Compatible with any decorator wallplate or screwless decorator wallplate

### Decorator dimmers

<table>
<thead>
<tr>
<th>Description</th>
<th>Compatible lamp types</th>
<th>Rating</th>
<th>Color suffix</th>
<th>Catalog no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decorator dimmer Single pole/3-way preset</td>
<td>0-10VDC LED/FLR</td>
<td>1200</td>
<td>C2, C4, C5</td>
<td>DF10P-__</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1600</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Color change faceplate for DF10P

- B, BK, GY, LA, V, W

### Slide dimmers

<table>
<thead>
<tr>
<th>Description</th>
<th>Compatible lamp types</th>
<th>Rating</th>
<th>Color suffix</th>
<th>Catalog no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slide dimmer Single pole/3-way preset</td>
<td>0-10VDC LED/FLR</td>
<td>1200</td>
<td>B, BK, LA, V</td>
<td>SF10P-__</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1600</td>
<td>W</td>
<td></td>
</tr>
</tbody>
</table>

### Color ordering information

For ordering devices, include Catalog no. followed by the color suffix: B (Brown), BK (Black), GY (Gray), LA (Light Almond), V (Ivory), W (White), C2 (Color Change Kit: LA, W, V), C4 (Color Change Kit: BK, W, V), C5 (Color Change Kit: BK, W, GY).

- B (Brown)
- BK (Black)
- GY (Gray)
- LA (Light Almond)
- V (Ivory)
- W (White)
- C2 Color Kit: LA, W, V
- C4 Color Kit: BK, W, V
- C5 Color Kit: BK, W, GY

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Eaton’s Sensor Technology Defined

Different types of sensor technologies have been designed to overcome a variety of diverse room layout challenges and optimize energy savings.

Passive Infrared (PIR) Sensors
- Detects motion from heat emitting sources (people)
- Requires direct line-of-sight
- Best in applications to detect larger movements, or “Major Motion”

Ultrasonic Sensors
- Emits low intensity, inaudible sound
- Detects motion based on changes in sound waves (Doppler principle)
- Volumetric in nature, no line-of-sight required
- Excellent for detecting small movements, or “Minor Motion”, and rooms with potential obstructions like bathrooms or libraries

Dual Technology
- Combines PIR and Ultrasonic technology
- Requires BOTH technologies to be triggered to turn lights ON, but will accept either PIR or Ultrasonic signal to maintain lights ON
- Helps eliminate false ON and OFF activity
- Greatest sensitivity and coverage area, for both Major and Minor Motion

Potential energy saved by room type
Significant return on investment can be realized by installing Eaton’s commercial lighting controls.

Reduce energy consumption
Save money
Reduce carbon footprint

Matching technology with the right environment
Application and environment are critical to selecting the right sensor to optimize functionality and maximize return on investment.

<table>
<thead>
<tr>
<th>Coverage Type</th>
<th>PIR Wall Mount</th>
<th>Dual Technology Wall Mount</th>
<th>PIR Ceiling Mount</th>
<th>Ultrasonic Ceiling Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line-of-sight</td>
<td></td>
<td>Complete coverage, line-of-sight, volumetric</td>
<td>Line-of-sight</td>
<td>Volumetric</td>
</tr>
<tr>
<td>Smaller enclosed spaces with no obstructions</td>
<td></td>
<td>Fluctuating activity levels, very low motion levels</td>
<td>Spaces where sensor has a line-of-sight to occupant</td>
<td>Open spaces with obstacles, very low motion levels</td>
</tr>
<tr>
<td>Very low motion levels, obstacles blocking the sensor from the occupant</td>
<td></td>
<td>Large open spaces</td>
<td>Very low motion levels, obstacles blocking the sensor from the occupant</td>
<td>Very high ceilings, extreme air flow or vibration</td>
</tr>
</tbody>
</table>
Commercial wallbox sensors

Wallbox sensors

Design features

- Selectable automatic ON mode or manual ON mode
- Convenient installation and test mode for set up
- Adjustable built-in light level sensor for additional energy savings
- Selectable time delay
- California Title 20 compliant
- For use with incandescent lamps, halogen fixtures, electronic and magnetic fluorescent ballasts, and electrical motor loads
- Wallplate included with OSP10 & OSD10 models

- Dual rated: 120V and 277V in the same unit
- Single pole or 3-way wiring
- Manual OFF push button can be used in either automatic or manual mode
- Reinforced lens is tamper-resistant
- Zero-crossing switching technology to maximize relay life and ensure wall switch longevity
- Fits standard size decorator wallplate

Wire leads – wall mount PIR with instinct (no neutral)

<table>
<thead>
<tr>
<th>Coverage area</th>
<th>Description</th>
<th>Color suffix</th>
<th>Catalog no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 sq. ft. major motion (92.2 sq. m) 300 sq. ft. minor motion (27.9 sq. m)</td>
<td>180° passive infrared single relay occupancy sensing wall switch</td>
<td>BK, GY, LA, V, W</td>
<td>OSP10-__</td>
</tr>
</tbody>
</table>

Wire leads – wall mount PIR (no neutral)

<table>
<thead>
<tr>
<th>Coverage area</th>
<th>Description</th>
<th>Color suffix</th>
<th>Catalog no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 sq. ft. major motion (92.2 sq. m) 300 sq. ft. minor motion (27.9 sq. m)</td>
<td>180° passive infrared single relay occupancy sensing wall switch</td>
<td>BK, GY, LA, V, W</td>
<td>OSP10M-__</td>
</tr>
</tbody>
</table>

Wire leads – wall mount dual tech with instinct (neutral required)

<table>
<thead>
<tr>
<th>Coverage area</th>
<th>Description</th>
<th>Color suffix</th>
<th>Catalog no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 sq. ft. major motion (92.2 sq. m) 300 sq. ft. minor motion (27.9 sq. m)</td>
<td>180° dual tech single relay occupancy sensing wall switch</td>
<td>BK, GY, LA, V, W</td>
<td>OSD10N-__</td>
</tr>
</tbody>
</table>

Electronic specifications

**OSP10, OSP10D, OSD10N, OSD10DN**

**OSP10M**

**Power requirements:**
120/277V/AC @ 60Hz

**Maximum load:**
- Incandescent/halogen: @120V/AC, 6.7A, 800W, 60Hz
- Fluorescent: @120V/AC, 10A, 1200W, 60Hz
- @277V/AC, 9.8A, 2700W, 60Hz
- Motor: @120V/AC, 1/4 HP @125 V/AC

**Power requirements:**
120/277V/AC @ 60Hz

**Maximum load:**
- Incandescent/halogen: @120V/AC, 60Hz, 15A, 1800W
- Magnetic ballast (Fluorescent, MLV): @120V/AC, 60Hz, 15A, 1800VA
- @277V/AC, 60Hz, 6A, 2200VA
- Electronic ballast (Fluorescent, CFL/LED/ELV lighting): @120V/AC, 60Hz, 10A, 1200VA
- @277V/AC, 60Hz, 6A, 2200VA
- Motor: @120V/AC, 60Hz, 1/2 Hp

Color ordering information

For ordering devices, include Catalog no. followed by the color suffix: BK (Black), GY (Gray), LA (Light Almond), V (Ivory), W (White)

![Color ordering chart]

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EATON Arrow Hart Commercial Lighting Controls
Commercial ceiling sensors

Product description
Coverage: 500, 1000, 2,000 sq ft
Frequency: 40, 32kHz
Technology: Dual technology, Passive infrared (PIR), Ultrasonic

Design features
• MicroSet self-adjusting time delay and sensitivity
• Products tested to NEMA WD 7 - 2011 Occupancy Motion Sensors Standard
• Built-in light level sensor
• Selectable walk-through mode
• California Title 20 Compliant

<table>
<thead>
<tr>
<th>Description</th>
<th>Coverage</th>
<th>Field of view</th>
<th>Frequency</th>
<th>Features</th>
<th>Catalog no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MicroSet dual tech low voltage</td>
<td>500 sq. ft.</td>
<td>One way (180°)</td>
<td>40 kHz</td>
<td>—</td>
<td>AHAC-DT-0501</td>
</tr>
<tr>
<td></td>
<td>1,000 sq. ft.</td>
<td>Two way (360°)</td>
<td>32 kHz</td>
<td>—</td>
<td>AHAC-DT-1000</td>
</tr>
<tr>
<td></td>
<td>2,000 sq. ft.</td>
<td>Two way (360°)</td>
<td>32 kHz</td>
<td>—</td>
<td>AHAC-DT-2000</td>
</tr>
<tr>
<td>MicroSet dual tech line voltage</td>
<td>2,000 sq. ft.</td>
<td>Two way (360°)</td>
<td>32 kHz</td>
<td>Dual relay with daylight sensor</td>
<td>AHAC-DT-2000-DMV</td>
</tr>
<tr>
<td>MicroSet PIR low voltage</td>
<td>500 sq. ft.</td>
<td>(360°)</td>
<td>—</td>
<td>With daylight sensor</td>
<td>AHAC-P-0500</td>
</tr>
<tr>
<td></td>
<td>1,500 sq. ft.</td>
<td>(360°)</td>
<td>—</td>
<td>With daylight sensor</td>
<td>AHAC-P-1500</td>
</tr>
<tr>
<td>MicroSet PIR line voltage</td>
<td>500 sq. ft.</td>
<td>(360°)</td>
<td>—</td>
<td>With daylight sensor</td>
<td>AHAC-P-0500-MV</td>
</tr>
<tr>
<td></td>
<td>1,500 sq. ft.</td>
<td>(360°)</td>
<td>—</td>
<td>With daylight sensor</td>
<td>AHAC-P-1500-MV</td>
</tr>
<tr>
<td>MicroSet ultrasonic low voltage</td>
<td>500 sq. ft.</td>
<td>One way (180°)</td>
<td>40 kHz</td>
<td>—</td>
<td>AHAC-U-0501</td>
</tr>
<tr>
<td></td>
<td>1,000 sq. ft.</td>
<td>Two way (360°)</td>
<td>32 kHz</td>
<td>—</td>
<td>AHAC-U-1000</td>
</tr>
<tr>
<td></td>
<td>2,000 sq. ft.</td>
<td>Two way (360°)</td>
<td>32 kHz</td>
<td>—</td>
<td>AHAC-U-2000</td>
</tr>
<tr>
<td>MicroSet ultrasonic line voltage</td>
<td>2,000 sq. ft.</td>
<td>Two way (360°)</td>
<td>32 kHz</td>
<td>Dual relay with daylight sensor</td>
<td>AHAC-U-2000-DMV</td>
</tr>
<tr>
<td>Dual tech wall/corner sensor</td>
<td>1,200 sq. ft.</td>
<td>Wide angle (120°)</td>
<td>—</td>
<td>—</td>
<td>AHAWC-DT-120W</td>
</tr>
<tr>
<td>Passive infrared wall/corner sensor</td>
<td>1,200 sq. ft.</td>
<td>Wide angle (120°)</td>
<td>—</td>
<td>—</td>
<td>AHAWC-P-120W</td>
</tr>
<tr>
<td>MicroSet STEM accessory</td>
<td>—</td>
<td></td>
<td>—</td>
<td>—</td>
<td>AHAC-STEM</td>
</tr>
<tr>
<td>Heavy duty switch pack</td>
<td>—</td>
<td></td>
<td>—</td>
<td>—</td>
<td>AHSP20-MV</td>
</tr>
</tbody>
</table>

Commercial ceiling sensors sample number: AHAC-DT-0501

Color information
W (White)

Technology:
DT = Dual Tech
P = Passive Infrared (PIR)
U = Ultrasonic

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We make what matters work.

At Eaton, we believe that power is a fundamental part of just about everything people do. Technology, transportation, energy and infrastructure—these are things the world relies on every day. That’s why Eaton is dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people’s lives, the communities where we live and work, and the planet our future generations depend upon. Because that’s what really matters. And we’re here to make sure it works.

See more at Eaton.com/whatmatters

Visit our website: www.eaton.com/arrowhart