# Lighting Controls

## RESIDENTIAL | COMMERCIAL

**Table of contents**

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**CHS Controls AB**
Tel +46 42 38 61 00, Fax +46 42 38 61 29
chs@chscontrols.se   www.chscontrols.se

**EATON** Wiring Devices Buyers Guide    **E-1**

# Lighting controls

Experience the ultimate in lighting controls with innovative technology and style from Eaton's Wiring Devices. Bridging state-of-the-art lighting control with contemporary aesthetics, Eaton's line of wallbox dimmers, occupancy sensors, timers, and fan speed controls can reduce energy usage, improve ambiance and enhance the elegance of a room.

## Lighting control families

**Residential dimmers**

E-3

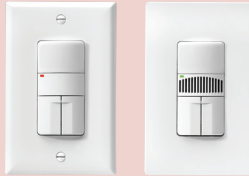**Residential sensors**

E-13

**Residential timers**

E-17

**Commercial dimmers**

E-21

**Commercial sensors**

E-22

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## The Eaton difference

# Residential dimmers

From the latest in decorator styles to timeless traditional styles, Eaton dimmers offer an extensive array of forms and options to seamlessly create ambiance and reduce energy consumption without compromising aesthetics, features or performance. Eaton also includes dimmers for fluorescent, compact fluorescent and LED loads.

# Residential dimmer families

Universal smart dimmers

**E-4**

Decorator dimmers & fan controls

**E-6**

Slide dimmers & fan controls

**E-7**

Toggle dimmers & fan controls

**E-8**

Rotary dimmers & fan controls

**E-9**

Power extenders

**E-11**

# Specific solutions for today's needs

### Energy savings

Both microprocessor-controlled and mechanical dimmers are available, that can provide energy savings in addition to ambiance.

See pages E-4 to E-24

### Flexibility

With multiple decorator designs, toggle options, and color choices it's easy to replace an existing switch and maintain a consistent aesthetic in single-gang or multi-gang installations.
See pages E-4 to E-24

### Innovation

Universal dimmers provide optimal dimming performance with today's most common lighting loads.

See pages E-4 to E-24

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**EATON** Wiring Devices Buyers Guide

**E-3**

# Dimmers & lighting controls

## Universal dimmers

### Product description

Single pole, 3-way & multi-location
300W, 600W/VA, 120V/AC
Rated for all common lighting loads - Dimmable LED/
CFL, INC/HAL, ELV, MLV, FLR

### Design features

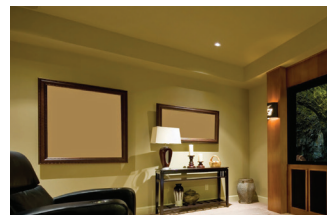- Adjustable low-end and high- end trim for optimal lamp compatibility and energy savings
- No de-rating required in multi-gang installations
- Preset feature allows user to return to previous light level when turning lights on
- Color change kits with 3 faceplates
- CA Title 24 compliant

**DUL06P**

**SUL06P**

**TUL06P**

| Dimmer features | Smart AL dimmer (AAL06) | Decorator UL dimmer (DUL06P) | Slide UL dimmer (SUL06P) | Toggle UL dimmer (TUL06P) | Rated for all common lighting loads |
|---|---|---|---|---|---|
| Rapid start feature | Selectable ON or OFF | — | — | — | Dimmable Compact Fluorescent (CFL) |
| Adjustable high-end trim | ✓ | ✓ | ✓ | ✓ | Dimmable Light-Emitting Diodes (LED) |
| Adjustable low-end trim | ✓ | ✓ | ✓ | ✓ | Electronic & Magnetic Low-Voltage (ELV) |
| Wiring configurations | Single pole or multi-location | Single pole or 3-way | Single pole or 3-way | Single pole or 3-way | Incandescent/Halogen (INC/HAL) |
| Color change kits | ✓ | ✓ | — | ✓ | Fluorescent (FLR) |

### Universal dimmers

| Rating W/AC | V/AC | Compatible lamp types | Description | Color suffix | Catalog no. | TITLE 24 |
|---|---|---|---|---|---|---|
| 300 | 120 | Dimmable LED/CFL | Decorator dimmer, single pole/ 3-way, preset | C2, C6, C7 | ☐ DUL06P-___ | ● |
| 600 | 120 | INC, HAL, FLR, MLV, ELV | | | | |
| 300 | 120 | Dimmable LED/CFL | Slide dimmer, single pole/ 3-way, preset | B, BK, GY, LA, V, W | ☐ SUL06P-___ | ● |
| 600 | 120 | INC, HAL, FLR, MLV, ELV | | | | |
| 300 | 120 | Dimmable LED/CFL | Toggle dimmer, single pole/ 3-way, preset | C2, C7 | ☐ TUL06P-___ | ● |
| 600 | 120 | INC, HAL, FLR, MLV, ELV | | | | |

### 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), C6 (Color Change Kit: RB, W, SG), C7 (Color Change Kit: BK, B, GY)

| B | BK | GY | LA | V | W |
|---|---|---|---|---|---|
| (Brown) | (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

| LA | W | V | RB | W | SG | BK | B | GY |
|---|---|---|---|---|---|---|---|---|
| **C2 Color Kit** LA (Light Almond), W (White), V (Ivory) | | | **C6 Color Kit** RB (Oil Rubbed Bronze), W (White), SG (Silver Granite) | | | **C7 Color Kit** BK (Black), B (Brown), GY (Gray) | | |

**Dimensional information:** E-25, E-26 **Specification information:** Please visit www.eaton.com/wiringdevices
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Tel +46 42 38 61 00, Fax +46 42 38 61 29
chs@chscontrols.se   www.chscontrols.se

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## Smart dimmers

### Product description
Single pole, 3-way, multi-location
300W, 600W, 1000W, 120V/AC
Dimmable LED/CFL, INC, HAL, FLR, MLV, ELV

AAL06

AIM10

ARD

### Design features

- Electro-mechanical push pad for ON/OFF operation with separate DIM/BRIGHT bar (AAL06)
- Delayed OFF feature provides a safe, convenient exit (10 seconds)
- 7 step LED indicates selected light level and reduces brightness when OFF (nightlight feature)
- Compatible with accessory dimmer (ARD) for multi-location control
- Adjustable low-end and high- end trim for optimal lamp compatibility and energy savings

- No de-rating required in multi-gang installations
- Neutral is required for installation of device
- Preset feature allows user to return to previous light level when turning lights ON
- Air-gap switch disconnects power from load, forcing an OFF condition
- Color change kits with 3 faceplates
- CA Title 24 compliant

### Smart dimmers  cULus  NOM 426

| Rating W/AC | V/AC | Compatible lamp types | Description | Color suffix | Catalog no. | TITLE 24 |
|---|---|---|---|---|---|---|
| 300 | 120 | Dimmable LED/CFL | Smart dimmer master, wire leads | C2, C4, C5 | ☐ AAL06-__ | ● |
| 600 | 120 | INC, HAL, FLR, MLV, ELV | | | | |
| 1000 | 120 | INC, HAL, MLV | Smart dimmer master, wire leads | B, BK, GY, LA, V, W, C2 | ☐ AIM10-__ | |
| | | FLR | Smart dimmer master with presets, Mark 10®, AmbiStar® & Tu-Wire® compatible, neutral required | B, BK, GY, LA, V, W, C2 | ☐ AF10-__ | |
| — | — | — | Accessory dimmer, must be used with AAL06, AIM10, or AF10), wire leads | B, BK, GY, LA, V, W, C2 | ☐ ARD-__ | |
| — | — | — | Smart dimmer master color change faceplate | B, BK, GY, LA, V, W | ☐ AMC-__-BP | |
| — | — | — | Accessory dimmer color change faceplate | B, BK, GY, LA, V, W | ☐ ARC-__-BP | |

### 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 | BK | GY | LA | V | W |
|---|---|---|---|---|---|
| (Brown) | (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

| LA | W | V |
|---|---|---|

**C2 Color Kit**
LA (Light Almond), W (White), V (Ivory)

| BK | W | V |
|---|---|---|

**C4 Color Kit**
BK (Black), W (White), V (Ivory)

| BK | W | GY |
|---|---|---|

**C5 Color Kit**
BK (Black), W (White), GY (Gray)

**Dimensional information:** E-25 **Specification information:** Please visit www.eaton.com/wiringdevices
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**E-5**

# Dimmers & lighting controls

## Decorator dimmers

### Product description

Single pole & 3-way
1000W/VA, 1200W/VA, or 8A; 120V/AC or 277V/AC
Incandescent/halogen, magnetic low-voltage, fluorescent

DF8AP

DF10P

### Design features

- Preset feature allows user to return to previous light setting when turning lights on

- Integrated linear slide control for easy, precise operation

- All units are available in combined single pole/3-way versions

- Device can be wired into either 3-way location (load side or line side)

- Neutral is not required for installation of device

- Square law dimming—perceived dimming level is proportional to the slider position

- Power failure memory

- Electrostatic discharge protection

- Precise color matching to match room decor

- Compatible with any decorator wallplate

- Adjustable high-end trim (DF10P)

### Dimmers, back & side wire

| Rating W/AC | V/AC | Compatible lamp types | Description | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| 1000 | 120 | INC, HAL, MLV | Incandescent/halogen, magnetic low-voltage dimmer, single pole/3-way with preset | B, BK, GY, LA, V, W | ☐ DI10P-__ |

cULus Listed to UL1472, file no. E47967; NOM certified

### Fluorescent dimmers, back & side wire

| Rating W/VA | V/AC | Description | Color suffix | Catalog no. |
|---|---|---|---|---|
| 1000 | 120 | Fluorescent dimmer; single pole/3-way with preset; Mark 10®, AmbiStar® & Tu-Wire® compatible | B, BK, GY, LA, V, W | ☐ DF8AP-__ |
| 1000 | 277 | Fluorescent dimmer, single pole/3-way with preset, Mark 10® compatible | B, BK, GY, LA, V, W | ☐ DF8AP7-__ |

cULus Listed to UL1472, file no. E47967; NOM certified

### 0-10V Dimmer, back & side wire

| Rating Watt | V/AC | Compatible lamp types | Description | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| 1200 | 120 | Dimmable LED/FLR 0-10V ballasts | Decorator dimmer, single pole/3-way, preset | C2, C4, C5 | ☐ DF10P-__ |
| 1600 | 277 | | | | |
| — | — | — | Color change faceplate for DF10P | BK, GY, LA, V, W | ☐ DCK1-__ |

cULus Listed to UL1472, file no. E47967; NOM certified

### Color ordering information:

For ordering devices, include Catalog no. followed by the Color suffix: A (Almond), 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 (Lt. Almond) | V (Ivory) | W (White) |
|---|---|---|---|---|---|

| LA | W | V |
|---|---|---|

**C2 Color Kit**
LA (Light Almond), W (White), V (Ivory)

| BK | W | V |
|---|---|---|

**C4 Color Kit**
BK (Black), W (White), V (Ivory)

| BK | W | GY |
|---|---|---|

**C5 Color Kit**
BK (Black), W (White), GY (Gray)

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chs@chscontrols.se   www.chscontrols.se

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# Dimmers & lighting controls

## Slide dimmers

### Product description

Single pole & 3-way
600W/VA, 1000W/VA, 1200W/VA. 1600W/VA, 120V/AC or 277V/AC
Incandescent/halogen, magnetic low-voltage, fluorescent

SI061-V

SF10P

### Design features

- Preset feature allows user to return to previous light setting when turning lights on

- Integrated full slide control for easy, precise operation

- Preset versions can be wired as single pole or 3-way

- Device can be wired into either 3-way location (load side or line side)

- Green LED softly illuminates when device is off, acting as a night light (preset versions only)

- Neutral is not required for installation of device

- Square Law Dimming—perceived dimming level is proportional to the slider position

- Power failure memory

- Electrostatic discharge protection

- Precise color matching

- Compatible with any decorator wallplate

- Adjustable high-end trim (SF10P)

### Dimmers, back & side wire    cULus    NOM 426

| Rating W | V/AC | Compatible lamp types | Description | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| 600 | 120 | Incandescent/halogen | Dimmer, single pole non-preset | B, BK, GY, LA, V, W | ☐ SI061-__ |
| | | Incandescent/halogen, magnetic low-voltage | Dimmer, single pole/3-way with preset & LED indicator | B, BK, LA, V, W | ☐ SI06P-__ |
| 1000 | 120 | Incandescent/halogen, magnetic low-voltage | Dimmer, single pole/3-way with preset & LED indicator | B, BK, GY, LA, V, W | ☐ SI10P-__ |

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### Fluorescent dimmers, back & side wire    cULus    NOM 426

| Rating W/VA | V/AC | Description | Color suffix | Catalog no. |
|---|---|---|---|---|
| 1000 | 277 | Fluorescent dimmer, single pole/3-way with preset & LED indicator, Mark 10® compatible | B, BK, GY, LA, V, W | ☐ SF8AP7-__ |

cULus Listed to UL1472, file no. E47967; NOM certified

### 0-10V Dimmer, back & side wire    cULus    NOM 426

| Rating Watt | V/AC | Compatible lamp types | Description | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| 1200 | 120 | Dimmable LED/FLR 0-10V ballasts | Slide dimmer, single pole/3-way, preset | B, BK, GY, LA, V, W | ☐ SF10P-__ |
| 1600 | 277 | | | | |

cULus Listed to UL1472, file no. E47967; NOM certified

### 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)

| B | BK | GY | LA | V | W |
|---|---|---|---|---|---|
| (Brown) | (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

**Dimensional information:** E-25 **Specification information:** Please visit www.eaton.com/wiringdevices
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# Dimmers & lighting controls

## Toggle dimmers & fan speed controls

### Product description

Single pole & 3-way
600W, 1000W, 120V/AC
1.5A or 5A, 120V/AC
Incandescent/halogen,magnetic low-voltage, fluorescent

TI061

TI061L

### Design features

- Integrated toggle switch for ON/OFF and DIM/BRIGHT operation (non-present version)
- Single pole and 3-way wiring offered in a single unit
- Matches existing wall switches

- Fully variable fan control allows for precise fan speed setting
- Power failure memory for enhanced convenience
- Precise color matching to match room decor
- Compatible with any traditional toggle switch wallplate or screwless toggle wallplate

### Incandescent/halogen dimmers   $_c$(UL)$_{us}$

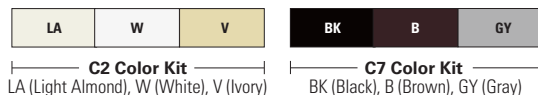| Rating W | V/AC | Description | Color suffix | Catalog no. |
|---|---|---|---|---|
| 600 | 120 | Incandescent/halogen dimmer, single pole/3-way non-preset | B, BK, LA, V, W | ☐ TI061-__ |
|  |  | Lighted incandescent/halogen dimmer, single pole/3-way non-preset | N/A (Clear) | ☐ TI061L |
| 1000 | 120 | Incandescent/halogen dimmer, single pole/3-way non-preset | B, BK, LA, V, W | ☐ TI3101-__ |
|  |  | Lighted incandescent/halogen dimmer, single pole/3-way non-preset | N/A (Clear) | ☐ TI3101L |

cULus Listed to UL1472, file no. E47967 & CSA C22.2 no. 18

### Fan speed controls   $_c$(UL)$_{us}$

| Rating A | V/AC | Description | Color suffix | Catalog no. |
|---|---|---|---|---|
| 5 | 120 | Fully variable fan speed control, single pole non-preset, wire leads | LA, V, W | ☐ TFS5-__ |
| 1.5 | 120 | Toggle fan speed control, quiet, 3-speed, single pole/3-way | C2, C7 | ☐ TFS15P1 |

cULus Listed to UL1917, file no. E202842 & CSA C22.2 no. 156; NOM certified

### 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), C7 (Color Change Kit: BK, B, GY)

| B | BK | GY | LA | V | W |
|---|---|---|---|---|---|
| (Brown) | (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

| LA | W | V |
|---|---|---|
| **C2 Color Kit** | | |
| LA (Light Almond), W (White), V (Ivory) | | |

| BK | B | GY |
|---|---|---|
| **C7 Color Kit** | | |
| BK (Black), B (Brown), GY (Gray) | | |

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# Dimmers & lighting controls

## Rotary dimmers & fan speed controls

### Product description
Single pole & 3-way
1.5A or 5A 120V/AC; combo 1.5A/300W; 2.5A/300W
3-speed or fully variable

RI061

RDC15

### Design features

- Integrated rotary dial for ON/OFF and DIM/BRIGHT operation
- Preset versions offer single pole and 3-way wiring in a single unit
- Neutral is not required for installation of device
- Fully variable fan control allows for precise fan speed setting

- Quiet 3-speed fan control allows for low, medium, and high fan speed settings
- Precise color matching to match room decor
- Compatible with any traditional switch wallplate or screwless toggle wallplate

### Incandescent/halogen dimmers  cULus  NOM 426

| Rating W | V/AC | Description | Color suffix | Catalog no. |
|---|---|---|---|---|
| 600 | 120 | Incandescent/halogen dimmer, single pole non-preset | LA, V, W | ☐ RI061-__ |
| | | Incandescent/halogen dimmer, single pole/3-way with preset | LA, V, W | ☐ RI06P-__ |
| | | Lighted incandescent/halogen dimmer, single pole/3-way with preset | LA, V, W | ☐ RI06PL-__ |
| 1000 | 120 | Incandescent/halogen dimmer, single pole non-preset | LA, V, W | ☐ RI101-__ |

cULus Listed to UL1472, file no. E47967 & CSA C22.2 no. 184.1; NOM certified

### Combination fan speed control/dimmer & fan speed controls  cULus  NOM 426

| Rating W | A | V/AC | Description | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| 300 | 1.5 | 120 | Combined, quiet 4-speed fan control & dimmer, single pole non-preset, incandescent/halogen | LA, V, W | ☐ RDC15__ |
| | 2.5 | 120 | Combined, quiet 4-speed fan control & dimmer, single pole non-preset, incandescent/halogen | LA, V, W | ☐ RDC25__ |
| | 1.5 | 120 | Quiet 3-speed fan control, single pole non-preset, wire lead | LA, V, W | ☐ RFS15-__ † |
| | 5 | 120 | Fully variable fan speed control, single pole non-preset | LA, V, W | ☐ RFS5-__ † |

†Not NOM; cULus Listed to UL1917, file no. E202842 & CSA C22.2 no. 156

### Replacement knobs for rotary dimmers & fan speed controls

| Description | Color suffix | Catalog no. |
|---|---|---|
| Replacement knob for lighted rotary dimmer RI06PL | B, BK, GY, LA, V, W | ☐ RKRL-__-BP |
| Replacement knobs for rotary dimmers (RI061, RI101, RI106P) | B, BK, GY, LA, V, W | ☐ RKRD-__-BP |
| Replacement knobs for rotary fan controls (RFS15, RFS5) | LA, V, W | ☐ RKRC-__-BP |

### 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)

| B | BK | GY | LA | V | W |
|---|---|---|---|---|---|
| (Brown) | (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

**Dimensional information:** E-26 **Specification information:** Please visit www.eaton.com/wiringdevices
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## Fan speed controls

### Product description

Single pole & 3-way
1.5A or 5A 120V/AC; combo 1.5A/300W
3-speed or fully variable

**DFS15P1**

**SFS5P**

**SDC15**

**HDFS3P1**

### Design features

- Quiet fan speed control versions have special circuitry to reduce fan motor noise at low speeds
- Combined single pole/3-way versions are available
- Replaces a standard switch and offers dimming and/or fan speed control capabilities

- Neutral is not required for installation of device
- Power failure memory
- Easy-access ground screws
- Compatible with any decorator wallplate

### Decorator fan speed control   c(UL)us   NOM 426

| Rating | | | | |
|---|---|---|---|---|
| A | V/AC | Description | Color suffix | Catalog no. |
| 1.5 | 120 | Quiet 3-speed fan control, single pole/3-way with preset | C2, C7 | ☐ DFS15P1-__ |

### Slide fan speed controls   c(UL)us   NOM 426

| Rating | | | | |
|---|---|---|---|---|
| A | V/AC | Description | Color suffix | Catalog no. |
| 1.5 | 120 | 1.5A quiet 3-speed fan control, single pole/3-way with preset | B, BK, GY, LA, V, W | ☐ SFS15P-__ |
| 5 | 120 | 5A fully variable fan speed control, single pole/3-way with preset | B, BK, GY, LA, V, W | ☐ SFS5P-__ |

### Slide combination fan speed control & dimmer   c(UL)us   NOM 426

| Rating | | | | | |
|---|---|---|---|---|---|
| A | V/AC | W | Description | Color suffix | Catalog no. |
| 1.5 | 120 | 300 | Combined 1.5A quiet 3-speed fan control & 300W dimmer, single pole, incandescent/halogen | B, BK, GY, LA, V, W | ☐ SDC15-__ |

## Humidity sensor and fan control

### Product description

Single pole
15A, 120V/AC, 60Hz

### Design features

- Turn fan ON/OFF automatically based on preset humidity level
- Manual ON / automatic OFF for fan
- Includes 3 humidity settings adjustment. High, Medium and Low.

- Time delay for fan is 30 minutes
- Can be manually controlled for immediate ventilation needs
- Replaces single pole switch
- Great for bathrooms, basements, laundry rooms, and home spas

### Humidity sensor and fan control   c(UL)us

| Rating | | | | | |
|---|---|---|---|---|---|
| A | V/AC | Hz | Description | Color suffix | Catalog no. |
| 15 | 120 | 60 | Humidity sensor and fan control | W | ☐ HDFS3P1__ |

### 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)

| B | BK | GY | LA | V | W |
|---|---|---|---|---|---|
| (Brown) | (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

| LA | W | V |
|---|---|---|
**— C2 Color Kit —**
LA (Light Almond), W (White), V (Ivory)

| BK | B | GY |
|---|---|---|
**— C7 Color Kit —**
BK (Black), B (Brown), GY (Gray)

**Specification information:** Please visit www.eaton.com/wiringdevices
**Compliances, specifications and availability are subject to change without notice.**

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Tel +46 42 38 61 00,  Fax +46 42 38 61 29
chs@chscontrols.se   www.chscontrols.se

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# Dimmers & lighting controls

## Power extenders

### Product description

1920W/VA
Incandescent, halogen, magnetic low-voltage, fluorescent, neon/cold cathode

### Design features

- Aluminum heat sink with snap-on cover (P19-W and PF19-W)
- P19-W and PF19-W can be surface- or flush-mounted using 1900 Box and 2-Gang raised cover

- Extends the capacity of dimmers and emulates connected dimmers in dimming range and resolution
- Low-end trim setting for minimum brightness level

P19-W

### Power extenders

| Rating W/VA | Description | Color | Catalog no. |
|---|---|---|---|
| 1920 | For incandescent/halogen, magnetic low-voltage, neon cold cathode, back wire | W | ☐ P19-W |
| | For dimmable fluorescent ballasts, Mark 10® & Tu-Wire® compatible, back wire | W | ☐ PF19-W |

**Color ordering information:**

W (White)

| W |
|---|

(White)

**Dimensional information:** E-26 **Specification information:** Please visit www.eaton.com/wiringdevices
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**E-11**

# The Eaton difference

## Occupancy & vacancy sensors

The lighting controls that deliver the greatest energy savings are occupancy and vacancy sensors. Eaton sensors are ideal for any application with universal load and wiring compatibility, selectable, and dimmable nightlight option on most models, unparalleled mode features, plus all Eaton sensors are available as either occupancy or vacancy types.

## Occupancy & vacancy sensor families

| | |
|---|---|
| DImming motion sensors **E-13** | Dual relay motion sensors **E-14** |
| Motion sensor with nightlight **E-15** | Motion sensors **E-16** |

## Specific solutions for today's needs

**Universal dimmer sensors**

Designed to reduce the number of devices required in a residential environment by combining motion sensing, toggle and dimmer switching in a single solution.

See pages E-13

**Motion sensor with nightlight**

Sensors with integrated nightlights are ideal for most rooms, and niglights come with a dimmable light level, selectable ON/ OFF and operate independently of the sensing function.

See pages E-15

**Dual switch sensors**

The perfect solution for single point control of two loads from one location, offering even more energy saving opportunities and flexibility than ever.

See pages E-14

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chs@chscontrols.se   www.chscontrols.se

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## Dimming motion sensors

### Product description

Single pole, 3-way
600W/VA; 120V/AC
Incandescent/halogen, magnetic low-voltage, electronic low-voltage, fluorescent, compact fluorescent, LED

OSUL06D

### Design features

- Full-range preset dimming control provided with horizontal DIM/BRIGHT bar

- Digital circuitry provides aesthetically pleasing soft ON/fade OFF that extends bulb life

- Preset and light level change is easily shown with horizontal row of green LEDs

- Works with popular load types: halogen, incandescent and magnetic low-voltage, LED

- Green LED indicates load status, provides locator light in dark and blinks to indicate motion detection

- LED serves as air-gap switch disconnecting power from load, forcing an OFF condition

- Push pad design provides minimal travel and crisp actuation

- Replaces a standard light switch

- Provides 180 degree field of view and 1000 sq. ft. of major motion coverage

- Selectable time delay of 5 seconds (test), 5 minutes, 10 minutes and 20 minutes for lights to remain ON after room is vacated

- Reverse mode allows light to stay OFF in a room when motion is detected

- Occupancy sensor provides a selectable ambient light override preventing lights from switching ON when there is acceptable natural light

- Occupancy sensor version allows toggling between Auto ON/Auto OFF or Manual ON /Auto OFF mode with a simple press and hold of switch

- Occupancy sensor provides for a bypass feature to allow the sensor to perform as a traditional switch (Manual ON/Manual OFF)

- Electrostatic discharge protection

- No leakage to load in OFF mode

- Uniform color matched PIR lens to device housing

- Neutral required for installation of device

- Color change faceplate kits provide for a simple in field change

- CA Title 24 compliant

### Motion sensor with dimmer  cULus  NOM 426

| Rating W/VA | V/AC | Compatible lamp loads | Description | Color suffix | Catalog no. | TITLE 24 |
|---|---|---|---|---|---|---|
| 300 | 120 | LED/CFL | Motion sensor with dimmer | C2, C4, C5, C7 | □ OSUL06D-__ | • |
| 600 | 120 | INC/HAL, MLV | | | | |
| 300 | 120 | LED/CFL | Vacancy sensor with dimmer | C2, C4, C5, C7 | □ VSUL06D-__ | • |
| 600 | 120 | INC/HAL, MLV | | | | |

cULus Listed to UL244A & UL1472, file no. E325082; NOM certified

### Dimmer color change kits

| Description | Color suffix | Catalog no. |
|---|---|---|
| Color change kit for dimmer sensor | BK, GY, LA, V, W | □ SCKD-__-BP |

### 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), C2 (Color Change Kit: LA, W, V), C4 (Color Change Kit: BK, W, V), C5 (Color Change Kit: BK, W, GY), C7 (Color Change Kit: BK, B, GY)

| BK | GY | LA | V | W |
|---|---|---|---|---|
| (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

| LA | W | V | | BK | W | V | | BK | W | GY | | BK | B | GY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C2 Color Kit | | | | C4 Color Kit | | | | C5 Color Kit | | | | C7 Color Kit | | |
| LA (Light Almond), W (White), V (Ivory) | | | | BK (Black), W (White), V (Ivory) | | | | BK (Black), W (White), GY (Gray) | | | | BK (Black), B (Brown), GY (Gray) | | |

**Dimensional information:** E-26 **Specification information:** Please visit www.eaton.com/wiringdevices
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chs@chscontrols.se  www.chscontrols.se

**EATON** Wiring Devices Buyers Guide

**E-13**

# Occupancy & vacancy sensors

## Dual relay motion sensors

### Product description
Single pole & 3-way
1000W/VA; 1/2 HP

OS310R

### Design features

- Can be wired as a single pole or 3-way device

- Selectable ON/OFF LED nightlight with press and hold dimming function

- Works with all popular load types: incandescent, magnetic low-voltage, electronic low-voltage, fluorescent, CFL, and LED

- Contains two switches to control two independent lighting loads or circuits (light and/or fan)

- Green LED indicates load status, provides locator light in dark and blinks to indicate motion detection

- Replaces a standard light or fan switch

- Provides 180 degree field of view and 1000 sq. ft. of major motion coverage

- Provides 3-way operation when used with a 3-way switch or sensor

- Selectable time delay of 5 seconds (test), 5 minutes, 10 minutes and 20 minutes for lights to remain ON after room is vacated

- Reverse mode allows light to stay OFF in a room when motion is detected

- Occupancy sensors time delay default set to 5 minutes; vacancy sensors time delay default set to 20 minutes

- Occupancy sensor provides a selectable ambient light override preventing lights from switching ON when there is acceptable natural light

- Occupancy sensor version allows toggling between Auto ON/Auto OFF or Manual ON /Auto OFF mode with a simple press and hold of switch

- Occupancy sensor provides for a bypass feature to allow the sensor to perform as a traditional switch (Manual ON/Manual OFF)

- No leakage to load in OFF mode

- Uniform color matched PIR lens to device housing

- Neutral required for installation of device

- Mid-size decorator wallplate included with product

- Color change faceplate kits provide for a simple in field change

- CA Title 24 compliant

### Dual relay motion sensors   c(UL)us   NOM 426

| Rating W/VA | V/AC | HP Motor | Description | Color suffix | Catalog no. | TITLE 24 |
|---|---|---|---|---|---|---|
| 1000 | 120 | 1/2 | Incandescent/halogen, magnetic low-voltage, electronic low-voltage, fluorescent, compact fluorescent, & LED occupancy sensor dual switch; single pole/3-way with nightlight & LED | BK, GY, LA, V, W C2 | □ OS310R-__ | ● |
| | | | Incandescent/halogen, magnetic low-voltage, electronic low-voltage, fluorescent, compact fluorescent, & LED vacancy sensor dual switch; single pole/3-way with nightlight & LED | BK, GY, LA, V, W C2 | □ VS310R-__ | ● |

cULus Listed to UL244A, file no. E325082; NOM certified

### Dual-relay motion sensor color change kit

| Description | Color suffix | Catalog no. |
|---|---|---|
| Color change kit for dual relay motion sensor | BK, GY, LA, V, W | □ SCKR-__-BP |

### 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)

| BK | GY | LA | V | W |
|---|---|---|---|---|
| (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

**Dimensional information:** E-26 **Specification information:** Please visit www.eaton.com/wiringdevices
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chs@chscontrols.se   www.chscontrols.se

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## Motion sensor switch with nightlight

### Product description

Single pole & 3-way
1000W/VA, 120V/AC; 1/2 HP Motor
LED, CFL, FLR, INC/HAL, ELV, MLV

VS310U

### Design features

- Can be wired as a single pole or 3-way device

- Selectable ON/OFF LED nightlight with press and hold dimming function

- Works with all popular load types: incandescent, magnetic low-voltage, electronic low-voltage, fluorescent, CFL, and LED

- Green LED indicates load status, provides locator light in dark and blinks to indicate motion detection

- Push pad design provides minimal travel and crisp actuation

- Replaces a standard light or fan switch

- Provides 180 degree field of view and 1000 sq. ft. of major motion coverage

- Provides 3-way operation when used with a 3-way switch or sensor

- Selectable time delay of 5 seconds (test), 5 minutes, 10 minutes and 20 minutes for lights to remain ON after room is vacated

- Occupancy sensors time delay default set to 5 minutes; vacancy sensor's time delay default set to 20 minutes

- Occupancy sensor provides a selectable ambient light override preventing lights from switching ON when there is acceptable natural light

- Occupancy sensor version allows toggling between Auto ON/Auto OFF or Manual ON /Auto OFF mode with a simple press and hold of switch

- Occupancy sensor provides for a bypass feature to allow the sensor to perform as a traditional switch (Manual ON/Manual OFF)

- Electrostatic discharge protection

- No leakage to load in OFF mode

- Uniform color matched PIR lens to device housing

- Neutral required for installation of device

- Mid-size decorator wallplate included with product

- Color change faceplate kits provide for a simple in field change

- CA Title 24 compliant

### Motion sensors  cULus  NOM 426

| Rating W/VA | V/AC | HP Motor | Description | Color suffix | Catalog no. | TITLE 24 |
|---|---|---|---|---|---|---|
| 1000 | 120 | 1/2 | Incandescent/halogen, magnetic low-voltage, electronic low-voltage, fluorescent, compact fluorescent, & LED occupancy sensor switch; single pole/3-way with nightlight & LED | BK, GY, LA, V, W | ☐ OS310U-__ | • |
| | | | Incandescent/halogen, magnetic low-voltage, electronic low-voltage, fluorescent, compact fluorescent, & LED vacancy sensor switch; single pole/3-way with nightlight & LED | BK, GY, LA, W | ☐ VS310U-__ | • |

cULus Listed to UL244A, file no. E325082; NOM certified

### Motion sensor color change kits

| Description | Color suffix | Catalog no. |
|---|---|---|
| Color change kit for motion sensor | A, BK, GY, LA, V, W | ☐ SCK1-__BP |

### Color ordering information:

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

| A | BK | GY | LA | V | W |
|---|---|---|---|---|---|
| (Almond) | (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

**Dimensional information:** E-26 **Specification information:** Please visit www.eaton.com/wiringdevices
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**E-15**

# Occupancy & vacancy sensors

## Motion sensors

### Product description
Single pole & 3-way
600W/VA, 120V/AC; 1/6HP motor
LED, CFL, FLR, INC/HAL, ELV, MLV

**VS306U**

### Design features

- Can be wired as a single pole or 3-way device
- Passive infrared technology
- Sensors provide up to 180 degree field of view and 450 sq. ft. of major motion coverage
- Selectable time delay of 5 seconds to 30 minutes for lights to remain on after room is vacated (Default = 5 min or OS306U, 20 min for VS306U)
- Occupancy sensor provides a selectable ambient light override preventing lights from switching ON when there is acceptable natural light
- Compact housing fits easily into a standard wall box and is suitable for multi-gang installations

- Compatible with decorator-style wallplates and screwless wallplates
- High-gloss finish complements any decor
- Electrostatic discharge protection
- No leakage to load in OFF mode
- Replaces a standard light or fan switch
- No neutral required for installation of device
- Available with color change kits
- CA Title 24 compliant

### Motion sensors cULus

| Rating W/VA | V/AC | Description | Compatible lamp loads | Color suffix | Catalog no. | TITLE 24 |
|---|---|---|---|---|---|---|
| 600 | 120 | Occupancy sensor switch, single pole/3-way, auto ON | LED, CFL, FLR, INC/HAL, ELV, MLV | BK, GY, LA, V, W, C2, C7 | ☐ OS306U-__ | |
| | | Vacancy sensor switch, single pole/3-way, manual ON | LED, CFL, FLR, NC/HAL, ELV, ML | BK, GY, LA, V, W, C2, C7 | ☐ VS306U-__ | ● |

**Note:** Sensors are rated for 120V/AC unless otherwise noted. cULus Listed to UL773A, file no. E191639

### 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), C2 (Color Change Kit: LA, W, V), C7 (Color Change Kit: B, BK, GY)

| BK | GY | LA | V | W |
|---|---|---|---|---|
| (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

**C2 Color Kit** — LA (Light Almond), W (White), V (Ivory)
**C7 Color Kit** — B (Brown), BK (Black), GY (Gray)

**Dimensional information:** E-26 **Specification information:** Please visit www.eaton.com/wiringdevices
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Tel +46 42 38 61 00, Fax +46 42 38 61 29
chs@chscontrols.se   www.chscontrols.se

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## The Eaton difference

# Timers

Timers control lights and fans with the touch of a button while ensuring the devices will not be left on. Using timers for landscape lighting, closets, attics, basements, garages and utility areas can lower energy costs and prevent lights being left on for days.

# Timer family

Hour & minute timers

**E-18**
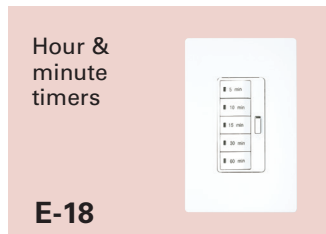
# Specific solutions for today's needs

**Energy savings**

Timers are programmable hour or minute time delay with convenient presets for lights and fans. Timers automatically turn ON/OFF after preset time and assist in energy savings.

See pages E-18

**Flexibility**

Timers are compatible with most popular load types: INC/HAL, MLV, ELV, CFL, FLR and LED. Timers are perfect for bathrooms, pool, spa and outdoor areas.

See pages E-18

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Tel +46 42 38 61 00, Fax +46 42 38 61 29
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**E-17**

## Minute & hour timers

### Product description

Single pole
15A, 120V/AC; 1800W
Incandescent/halogen, magnetic low-voltage, electronic low-voltage, fluorescent, compact fluorescent, LED

### Design features

- Automatically turns lights/fans ON/OFF after preset time
- Perfect for retrofit with no neutral required for installation
- Available in both hours and minutes versions
- Five (5) preset time intervals
- Easily programmable to alternate time intervals to suit your needs

- Works with all popular load types: incandescent/halogen, magnetic low-voltage, electronic low-voltage, fluorescent, compact fluorescent, and LED
- Horsepower rated for 1/4 HP motor loads
- LED indication of time interval selected and countdown
- Color change faceplate kits available

**PT18M**

**PT18H**

**AT18HM**

### Timers

| Rating A | V/AC | W | Description | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| 15 | 120 | 1800 | 5-button minute timer with OFF, single pole | B, BK, GY, LA, V, W, C2 | ☐ PT18M__ |
| | | | 5-button hour timer with OFF, single pole | B, BK, GY, LA, V, W, C2 | ☐ PT18H__ |

cULus Listed to UL60730-1A & 60730-2-7, file no. E325082; certified to E60730-2-9:01; NOM certified

### Color change kits for minute and hour timers

| Description - Minute timer | Color suffix | Catalog no. | Description - Hour timer | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| Color change kit 1 (5, 10, 15, 30, 60) | | ☐ PT1MK-__-P | Color change kit 1 (1, 2, 4, 8, 12) | | ☐ PT1HK-__-P |
| Color change kit 2 (5, 10, 20, 30, 60) | | ☐ PT2MK-__-P | Color change kit 2 (1, 3, 6, 9, 12) | | ☐ PT2HK-__-P |
| Color change kit 3 (5, 15, 30, 45, 60) | BK, GY, LA, V, W | ☐ PT3MK-__-P | Color change kit 3 (2, 4, 8, 12, 24) | BK, GY, LA, V, W | ☐ PT3HK-__-P |
| Color change kit 4 (1, 5, 10, 15, 30) | | ☐ PT4MK-__-P | Color change kit 4 (30, 1, 2, 4, 8) | | ☐ PT4HK-__-P |
| Color change kit 5 (1, 10, 15, 20, 30) | | ☐ PT5MK-__-P | Color change kit 5 (15, 30, 1, 2, 4) | | ☐ PT5HK-__-P |

## Astronomic programmable timer

### Product description

Single pole, 3-way
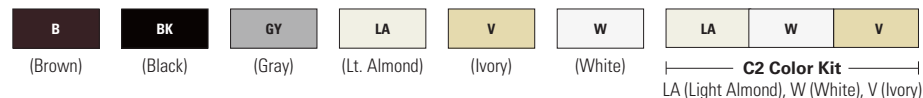1800W, 120V/AC, 60Hz

### Design features

- For use with lights and motors up to 1800 Watts
- 4 operating modes: manual, automatic, random, count down
- Automatic daylight savings function - no need to reprogram

- Connections: single pole or 3-way
- 7 customizable settings protected during power outage by built-in back-up battery that lasts up to 14 days
- California Title 24 compliant

### Astronomic programmable timer

| Rating A | V/AC | W | Description | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| 15 | 120 | 1800 | Astronomic programmable timer | W | ☐ AT18HM__ |

### 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)

| B (Brown) | BK (Black) | GY (Gray) | LA (Lt. Almond) | V (Ivory) | W (White) | C2 Color Kit |
|---|---|---|---|---|---|---|
| | | | | | | LA (Light Almond), W (White), V (Ivory) |

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Tel +46 42 38 61 00, Fax +46 42 38 61 29
chs@chscontrols.se   www.chscontrols.se

Eaton.com
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## The Eaton difference

# Commercial dimmers & sensors

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.

## Commercial dimmer & sensors families

| Universal dimmers | Commercial occupancy sensors |
|---|---|
| **E-20** | **E-22** |

| Dimmer sensors | Commercial ceiling sensors |
|---|---|
| **E-23** | **E-24** |

## Specific solutions for today's needs

**Commercial universal dimmers**

High wattage and dual rated, cost effective solution for commercial lighting control installations.

See pages E-20 to E-24

**Commercial occupancy & vacancy sensors**

Different types of sensor technologies have been designed to overcome a variety of diverse room layout challenges and optimize energy savings.
See pages E-20 to E-24

**Commercial ceiling sensors**

Ceiling or wall/corner mount, these sensors enhance energy savings by offering self-sensing features which continually adjust to the sensitivity of the sensor to meet the needs of each space. Other features include dual relays with daylight sensing.
See page E-24

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**CHS Controls AB**
Tel +46 42 38 61 00,  Fax +46 42 38 61 29
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EATON Wiring Devices Buyers Guide

**E-19**

# Commercial dimmers & sensors

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.

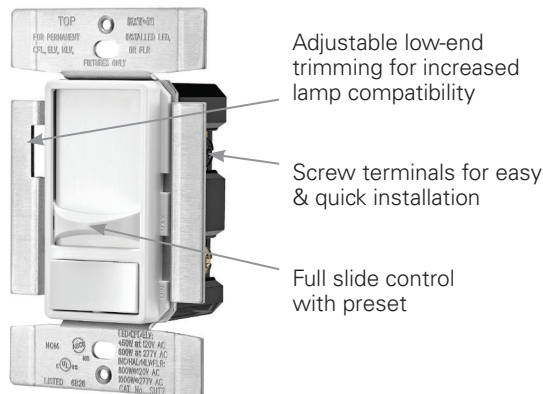## Universal phase selectable dimmer SUF7
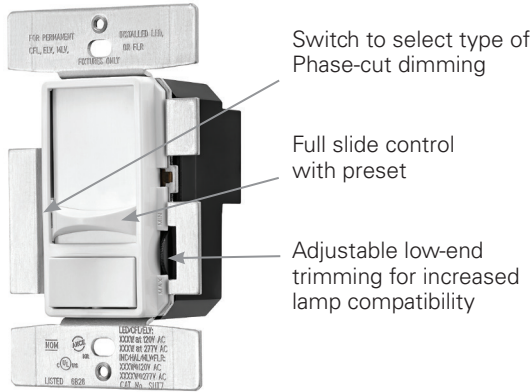
### Universal phase selectable dimmer
**Additional features & benefits**

- Combines latest dimming technology & energy savings in ONE Eaton device.

- Allows the user to select between forward & reverse phase-cut dimming which helps in expanding lamp compatibility.

- Can save energy by reducing the flow of power to the fixture & allowing lights to operate at lower power levels.

- Operates at lower power levels to help in reducing stress caused on the lights and increase the life span of the fixtures.

Switch to select type of Phase-cut dimming

Full slide control with preset

Adjustable low-end trimming for increased lamp compatibility
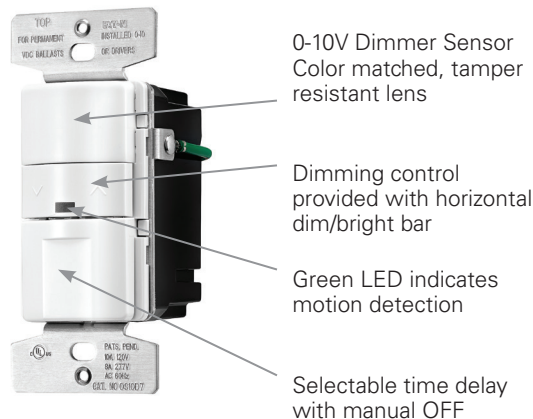
## Universal slide dimmer SUT7

### Universal slide dimmer
**Additional features & benefits**

- 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.

Adjustable low-end trimming for increased lamp compatibility

Screw terminals for easy & quick installation

Full slide control with preset

## 0-10V Dimmer sensor

### 0-10V Dimmer sensor
**Additional features & benefits**

- The ultimate solution to reduce energy and installation cost.

- Replace a switchpack, sensor & 0-10V dimmer with ONE Eaton 0-10V Dimmer Sensor.

0-10V Dimmer Sensor Color matched, tamper resistant lens

Dimming control provided with horizontal dim/bright bar

Green LED indicates motion detection

Selectable time delay with manual OFF

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chs@chscontrols.se   www.chscontrols.se

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# Universal dimmers

## 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

SUF7

### Universal phase selectable slide dimmers   c(UL)us  NOM 426

| Description | Compatible lamp types | Rating Watt | V/AC | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| Universal phase selectable slide dimmer | LED/CFL/FLR | 450 | 120 | BK, GY, LA, V, W | ☐ SUF7-__ |
|  |  | 450 | 277 |  |  |
|  | INC/HAL/ELV | 650 | 120 | BK, GY, LA, V, W |  |
|  |  | 1000 | 277 |  |  |

## 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

SUT7

### Universal slide dimmers   c(UL)us  NOM 426

| Description | Compatible lamp types | Rating Watt | V/AC | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| Universal slide dimmer (forward phase-cut) | LED/CFL/FLR | 450 | 120 | BK, GY, LA, V, W | ☐ SUT7-__ |
|  |  | 600 | 277 |  |  |
|  | INC/HAL/ MLV/ELV | 720 | 120 | BK, GY, LA, V, W |  |
|  |  | 1000 | 277 |  |  |

### 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)

| BK | GY | LA | V | W |
|---|---|---|---|---|
| (Black) | (Gray) | (Light Almond) | (Ivory) | (White) |

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**E-21**

## Wire leads-wall mount

### Commercial specification grade occupancy sensors 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
- 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

OSP10D

OSP10M

OSD10DN

### Wire leads – wall mount PIR with instinct (no neutral)   cULus   NOM 426

| Coverage area | Description | Color suffix | Catalog no. |
|---|---|---|---|
| 1000 sq. ft. major motion (92.2 sq. m) 300 sq. ft. minor motion (27.9 sq. m) | 180° passive infrared single relay occupancy sensing wall switch | BK, GY, LA, V, W | ☐ OSP10-__ |
| | 180° passive infrared dual relay occupancy sensing wall switch | BK, GY, LA, V, W | ☐ OSP10D-__ |

cULus listed

### Wire leads – wall mount PIR (no neutral)   cULus   NOM 426

| Coverage area | Description | Color suffix | Catalog no. |
|---|---|---|---|
| 1000 sq. ft. major motion (92.2 sq. m) 300 sq. ft. minor motion (27.9 sq. m) | 180° passive infrared single relay occupancy sensing wall switch | BK, GY, LA, V, W | ☐ OSP10M-__ |

cULus listed

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

| Coverage area | Description | Color suffix | Catalog no. |
|---|---|---|---|
| 1000 sq. ft. major motion (92.2 sq. m) 300 sq. ft. minor motion (27.9 sq. m) | 180° dual tech single relay occupancy sensing wall switch | BK, GY, LA, V, W | ☐ OSD10N-__ |
| | 180° dual tech dual relay occupancy sensing wall switch | BK, GY, LA, V, W | ☐ OSD10DN-__ |

cULus listed

### Electronic specifications

| OSP10, OSP10D, OSD10N, OSD10DN | OSP10M |
|---|---|
| **Power requirements:** 120/277VAC @ 60Hz | **Power requirements:** 120/277VAC @ 60Hz |
| **Maximum load:** Incandescent/halogen: @120V: 6.7A, 800W, 60Hz Fluorescent: @120V: 10A, 1200W, 60Hz @277V: 9.8A, 2700W, 60Hz Motor: @120V: 1/4 HP @125 V/AC | **Maximum load:** Incandescent/halogen: @120VAC, 60Hz: 15A, 1800W Magnetic ballast (Fluorescent, MLV): @120VAC, 60Hz: 15A, 1800VA @277VAC, 60Hz: 8A, 2200VA Electronic ballast (Fluorescent, CFL/LED/ELV lighting): @120VAC, 60Hz: 10A, 1200VA @277VAC, 60Hz: 8A, 2200VA Motor: @120VAC, 60Hz; 1/2 Hp |

### Coverage area



36'
20'
15'
8'
8'
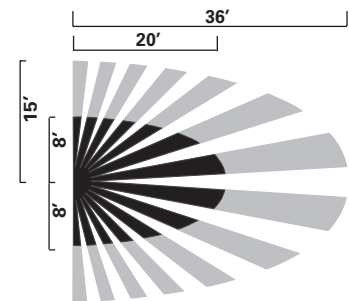
**Minor Motion, IR**

**Major Motion, IR**

Maximum coverage area may vary somewhat according to room shape and the presence of obstacles.

### 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)

| BK | GY | LA | V | W |
|---|---|---|---|---|
| (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

**Testing & code compliance:** Listed to UL508 (UL244A for OSP10M), California Title 24 Energy Code compliant
**Material characteristics:** Flammability meets UL94 requirements; V0 rated, Temperature Rating: 0°C to 40°C (32°F to 104°F)
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# 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



OS10D7

### 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
- Compatible with any decorator wallplate or screwless decorator wallplate
- Neutral required for installation of device

### Occupancy & vacancy dimmer sensors

| Description | Compatible lamp types | Rating Watt | V/AC | Color suffix | Catalog no. |
|---|---|---|---|---|---|
| Occupancy sensor & dimmer with LED single pole/3-way preset | 0-10VDC LED/FLR | 1200 2200 | 120 277 | BK, GY, LA, V, W | ☐ OS10D7-__ |
| Vacancy sensor & dimmer with LED single pole/3-way preset | 0-10VDC LED/FLR | 1200 2200 | 120 277 | BK, GY, LA, V, W | ☐ VS10D7-__ |

### 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)

| BK | GY | LA | V | W |
|---|---|---|---|---|
| (Black) | (Gray) | (Lt. Almond) | (Ivory) | (White) |

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**E-23**

## Commercial ceiling sensors

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

### Commercial ceiling sensors sample number:
**AHAC-DT-0501**

| Technology |
|---|
| **DT** = Dual Tech |
| **P** = Passive Infrared (PIR) |
| **U** = Ultrasonic |

AHAC-U-2000-MV

AHAWC-DT-120W

AHSP20-MV

### 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

### Commercial ceiling sensors  c(UL)us

| Description | Coverage | Field of view | Frequency | Features | Catalog no. |
|---|---|---|---|---|---|
| MicroSet dual tech low voltage | 500 sq. ft. | One way (180°) | 40 kHz | — | ☐ AHAC-DT-0501 |
| | 1,000 sq. ft. | Two way (360°) | 32 kHz | — | ☐ AHAC-DT-1000 |
| | 2,000 sq. ft. | Two way (360°) | 32 kHz | — | ☐ AHAC-DT-2000 |
| MicroSet dual tech line voltage | 2,000 sq. ft. | Two way (360°) | 32 kHz | Dual relay with daylight sensor | ☐ AHAC-DT-2000-DMV |
| | 2,000 sq. ft. | Two way (360°) | 32 kHz | With daylight sensor | ☐ AHAC-DT-2000-MV |
| MicroSet PIR low voltage | 500 sq. ft. | (360°) | — | — | ☐ AHAC-P-0500 |
| | 1,500 sq. ft. | (360°) | — | — | ☐ AHAC-P-1500 |
| MicroSet PIR line voltage | 500 sq. ft. | (360°) | — | With daylight sensor | ☐ AHAC-P-0500-MV |
| | 500 sq. ft. | (360°) | — | Dual relay with daylight sensor | ☐ AHAC-P-0500-DMV |
| | 1,500 sq. ft. | (360°) | — | With daylight sensor | ☐ AHAC-P-1500-MV |
| | 1,500 sq. ft. | (360°) | — | Dual relay with daylight sensor | ☐ AHAC-P-1500-DMV |
| MicroSet ultrasonic low voltage | 500 sq. ft. | One way (180°) | 40 kHz | — | ☐ AHAC-U-0501 |
| | 1,000 sq. ft. | Two way (360°) | 32 kHz | — | ☐ AHAC-U-1000 |
| | 2,000 sq. ft. | Two way (360°) | 32 kHz | Dual relay with daylight sensor | ☐ AHAC-U-2000 |
| MicroSet ultrasonic line voltage | 2,000 sq. ft. | Two way (360°) | 32 kHz | Dual relay with daylight sensor | ☐ AHAC-U-2000-DMV |
| | 2,000 sq. ft. | Two way (360°) | 32 kHz | With daylight sensor | ☐ AHAC-U-2000-MV |
| Dual tech wall/corner sensor | 1,200 sq. ft. | Wide angle (120°) | — | — | ☐ AHAWC-DT-120W |
| Passive infrared wall/corner sensor | 1,200 sq. ft. | Wide angle (120°) | — | — | ☐ AHAWC-P-120W |
| | 90 linear ft. | (180°) | — | — | ☐ AHAWC-P-009L-H |
| MicroSet STEM accessory | — | — | — | — | ☐ AHAC-STEM |
| Heavy duty switch pack | — | — | — | Capable of switching up to 20A | ☐ AHSP20-MV |

### Color ordering information:

W (White)

| W |
|---|

(White)

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Tel +46 42 38 61 00,  Fax +46 42 38 61 29
chs@chscontrols.se   www.chscontrols.se

# Dimensional data

## Smart Dimmers & Timers

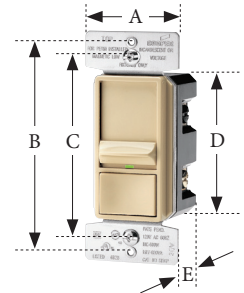| Family | A | B | C | D | E |
|---|---|---|---|---|---|
| 600W smart dimmers & accessory dimmers (AAL06, ARD) | 1.80" (45.7mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.59" (65.8mm) | 1.38" (35.1mm) |
| 1000W smart dimmers (AIM10) | 2.44" (62.0mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.59" (65.8mm) | 1.36" (34.5mm) |
| Timers (PT18) | 1.80" (45.7mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.59" (65.8mm) | 1.39" (35.4mm) |
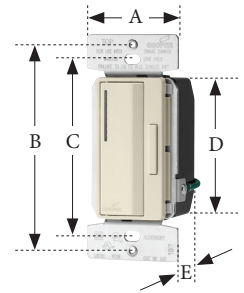


## Decorator Dimmers

| Family | A | B | C | D | E |
|---|---|---|---|---|---|
| 600W dimmers (DUL06P) | 1.80" (45.7mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.62" (66.5mm) | 1.28" (32.6mm) |
| 1000W dimmers (DI10P, DF8AP7) | 2.45" (62.2mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.69" (68.3mm) | 1.28" (32.6mm) |
| Fan speed controls (DFS15P1) | 1.80" (45.7mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.69" (68.3mm) | 1.28" (32.6mm) |
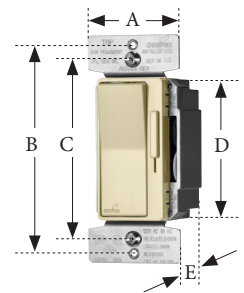


## Slide Dimmers

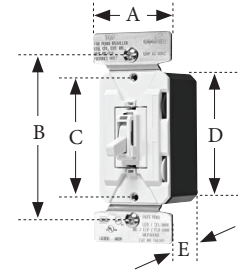| Family | A | B | C | D | E |
|---|---|---|---|---|---|
| 600W dimmers (SUL06P) | 1.80" (45.7mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.62" (66.5mm) | 1.3" (33mm) |
| 1000W dimmers (SI10P, SF8AP7) | 2.45" (62.2mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.62" (66.5mm) | 1.27" (32.4mm) |
| Fan speed controls (SFS15) | 1.80" (45.7mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.67" (67.8mm) | 1.27" (32.4mm) |



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**E-25**

# Dimensional data

## Toggle dimmers

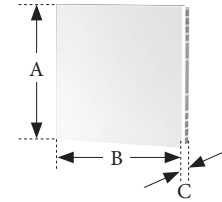| Family | A | B | C | D | E |
|---|---|---|---|---|---|
| **600W dimmers** (TUL06P) | 1.8" (45.7mm) | 3.28" (83.3mm) | 2.38" (60.5mm) | 2.71" (68.8mm) | 1.25" (31.8mm) |
| **1000W dimmers** (TI3101, TI3101L) | 1.72" (43.7mm) | 3.28" (83.3mm) | 2.38" (60.5mm) | 2.71" (68.8mm) | 1.41" (35.8mm) |
| **Fan speed controls** (TFS15P1) | 1.8" (45.7mm) | 3.28" (83.3mm) | 2.38" (60.5mm) | 2.30" (58.4mm) | 1.55" (39.8mm) |

## Rotary dimmers

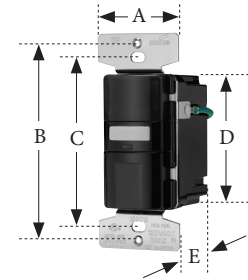| Family | A | B | C | D | E |
|---|---|---|---|---|---|
| **600W dimmers** (RI06) | 1.72" (43.7mm) | 3.28" (83.3mm) | 2.38" (60.5mm) | 2.71" (68.8mm) | 1.41" (35.8mm) |
| **1000W dimmers** (RI101) | 1.72" (43.7mm) | 3.28" (83.3mm) | 2.38" (60.5mm) | 2.71" (68.8mm) | 1.43" (36.3mm) |
| **Combination dimmers & fan speed control** (RDC15, RDC25) | 1.72" (43.7mm) | 3.81" (96.8mm) | 3.28" (83.3mm) | 2.63" (66.8mm) | 1.52" (38.6mm) |
| **Fan speed controls** (RFS5, RFS15) | 1.72" (43.7mm) | 3.28" (83.3mm) | 2.38" (60.5mm) | 2.71" (68.8mm) | 1.41" (35.8mm) |
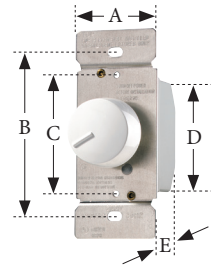
## Dimmers: power extenders

| Family | A (Height) | B (Width) | C (Depth) |
|---|---|---|---|
| **Power Extenders** (P19, PF19) | 4.85" (123.2mm) | 4.65" (118.0mm) | 2.07" (52.6mm) |

## Occupancy & vacancy sensors

| Family | A | B | C | D | E |
|---|---|---|---|---|---|
| **Occupancy/vacancy dimmers** (OSUL06D, VSUL06D) | 1.80" (45.7mm) | 3.81" (96.8mm) | 3.21" (81.5mm) | 2.59" (65.8mm) | 1.40" (35.6mm) |
| **Occupancy/vacancy dual switches** (OS310R, VS310R) | 1.80" (45.7mm) | 3.81" (96.8mm) | 3.21" (81.5mm) | 2.59" (65.8mm) | 1.40" (35.6mm) |
| **Occupancy/vacancy switches** (OS310U, VS310U) | 1.80" (45.7mm) | 3.81" (96.8mm) | 3.21" (81.5mm) | 2.59" (65.8mm) | 1.40" (35.6mm) |

## Occupancy & vacancy sensors: standard series

| Family | A | B | C | D | E |
|---|---|---|---|---|---|
| **(OS306U)** | 1.8" (45.72mm) | 3.81" (96.8mm) | 3.21" (81.5mm) | 2.59" (65.8mm) | 1.40" (35.6mm) |
| **(VS306U)** | 1.8" (45.72mm) | 3.81" (96.8mm) | 3.21" (81.5mm) | 2.59" (65.8mm) | 1.40" (35.6mm) |

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