H-MOSS® Occupancy Sensors

Daylighting Harvesting - Automatic Dimming Control

HUBBELL

H-MOSS® Hubbell Motion Sensing Switches

Hubbell's DHADC is the ideal system for providing continuous dimming control for 2-wire 0–10V dimming ballasts based on natural daylight. This control maintains constant, undisturbed, fluorescent light levels during peak use times. Through continuous monitoring of ambient light levels, the DHADC dims the associated lighting fixtures to a user's predefined foot-candle setting. The DHADC dimming photocell provides precise control of the actual amount of lighting on the work surface (e.g. desktop, floor) within its field of view. Measured light levels are converted into a linear, proportional, analog voltage that controls the ballast-dimming range. This achieves maximum energy savings by efficiently blending natural and artificial light to maintain a comfortable visual environment.

DHADC

The sensor head adjustment sets the maximum output of the controlled ballast. The sensor also provides a short and long delay. The short delay provides faster sensor response. The long delay slows the sensor response and maintains a more stable signal to the ballast, such as in situations with passing clouds.

Key Features

- Controls 2-wire 0–10V dimming ballasts
- Light-sensitivity range of 0–500 foot-candles
- Selectable 3- or 8-second dimming rate
- Multiple calibration options
- Low-profile design
- 2-year warranty

Features and Benefits

Features	Benefits
Controls 2-wire 0–10V dimming ballasts	Increases energy savings by dimming lights when there is sufficient natural light.
Selectable 3- or 8-second dimming rate	Reduces disturbance from light fluctuations (e.g. cloudy areas would require a longer delay)
Multiple calibration options	Easy adjustment of light levels at the sensor head
Low-profile design	Aesthetically pleasing—shadow-free appearance

Applications

For use with any 2-wire 0–10V electronic dimming ballasts, such as the Philips Advance™ Mark VII

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Automatic Dimming Control

Description	Catalog Number
Automatic Dimming Control	**DHADC**

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Specifications

Accuracy	+/-1% @ 70°F (21°C); De-rated to +/-5% when above 120°F (49°C) or below 50°F (18°C)
Supported ballasts	Capable of controlling up to 80 Advance Mark VII ballasts or 50 traditional 2-wire 0-10V dimming ballasts
Operating environment	-13°F to +140°F (-25°C–60°C)
Sensitivity ranges	0–500 foot-candles
Adjustment range	7–140 foot-candles
Input voltage	10 VDC (supplied by ballast)
Output voltage	1 VDC (light)–10 VDC (dark)
Wire leads	22 gauge - Gray and violet to the dimming ballast - Blue and black for remote calibration dial - White-green 2-wire loop cut for 3-second dimming delay; leave intact for 8-second delay
Sensor type	Blue-enhanced photo diode
Size	Base diameter: 2.00" Sensor diameter: 1.29" Height: 1.23"
Mounting	Mounting hole: 3/8" Mounting medium: 3M™ double adhesive tape
Construction	Sensor housing meets flame-retardant requirements of UL standard 94HB
Warranty	2 years, limited

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