



Daylighting Controls

Continuous Dimming Control

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



DLC7

OVERVIEW

Hubbell Building Automation’s DLC7 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 DLC7 dims the associated lighting fixtures to a user’s predefined foot-candle setting. The DLC7 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.

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.

FEATURES and BENEFITS

Features

Controls 2-wire 0–10V dimming ballasts

Selectable 3- or 8-second dimming rate

Multiple calibration options

Low-profile design

Benefits

- Increases energy savings by dimming lights when there is sufficient natural light.
- More control over when lights dim (e.g. cloudy areas would require a longer delay)
- Easy adjustment of light levels at the sensor head
- Aesthetically pleasing—shadow-free appearance

APPLICATIONS

For use with 2-wire electronic dimming ballasts, such as the Advance™ Mark VII.

SPECIFICATIONS

Accuracy	<ul style="list-style-type: none">• +/-1% @ 70° F (21° C);• Derated to +/-5% when above 120° F or below 50° F (18°–49° C)
Supported ballasts	<ul style="list-style-type: none">• Capable of controlling up to 80 Advance Mark VII ballasts,
Operating environment	<ul style="list-style-type: none">• -13°F to +140° F (-11°C–60° C)
Sensitivity ranges	<ul style="list-style-type: none">• 0–500 foot-candles
Adjustment range	<ul style="list-style-type: none">• 7–140 foot-candles
Input voltage	<ul style="list-style-type: none">• 10 VDC (9 supplied by ballast)
Output voltage	<ul style="list-style-type: none">• 1VDC (light)–10 VDC (dark)
Wire leads	<ul style="list-style-type: none">• 22 gauge<ul style="list-style-type: none">- Gray and violet to the Advance ballast- Blue and black for remote calibration dial- White-green 2-wire loop cut for 3-second delay. Leave intact for 8-second delay to ballast
Sensor type	<ul style="list-style-type: none">• Blue enhanced photodiode
Size	<ul style="list-style-type: none">• Base diameter: 2.00” Sensor diameter: 1.29” Height: 1.23”
Mounting	<ul style="list-style-type: none">• Mounting hole: 3/8” Mounting medium: 3M™ double adhesive tape
Construction	<ul style="list-style-type: none">• Sensor housing meets flame-retardant requirements of UL standard 94HB
Warranty	<ul style="list-style-type: none">• 2 years

HOW TO ORDER

Catalog Number	Description
DLC7	Continuous Dimming Control



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