

DLC7

Project Name _____

Catalog No. _____ Date _____

The 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, accommodating for brief changes in light due to passing clouds.

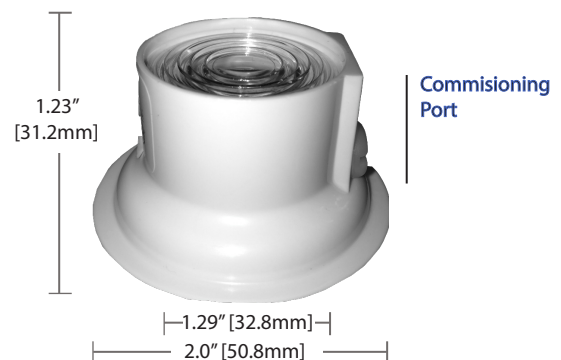
Product Features

- Controls 2-wire 0–10V dimming ballasts
- Light-sensitivity range of 0–500FC
- Selectable 3- or 8-second dimming rate
- Multiple calibration options
- Low-profile design
- Five-year limited warranty
- Low voltage device: 24 Vdc

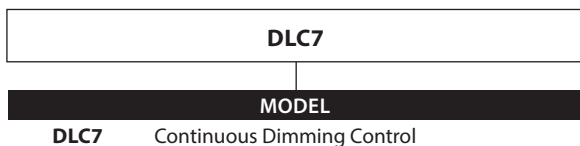
Compliance and Certification



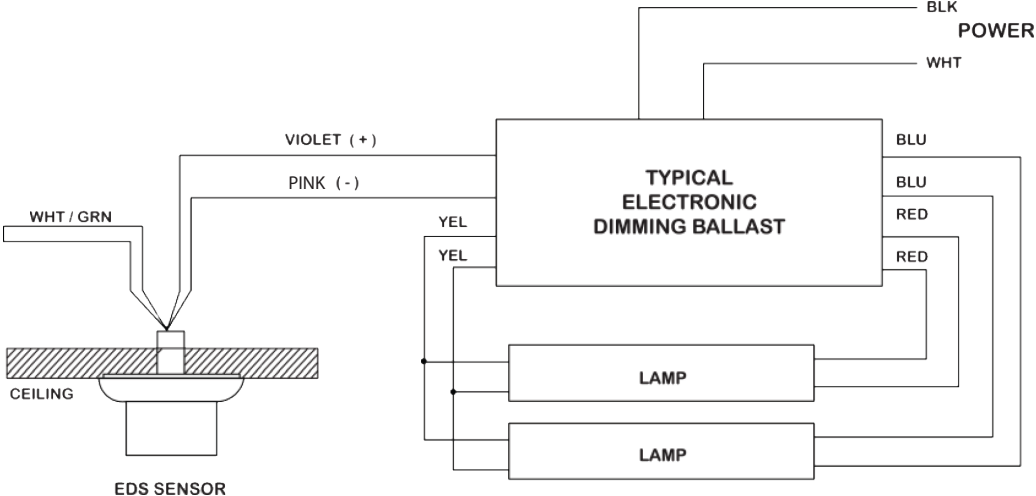
Dimensions



Ordering Information



Wiring Diagrams



Pink wire replaces previous gray wire. Units with a gray instead of pink wire should be wired as the pink wire shown in the diagram.

General Specifications

Accuracy	+/-1% @ 70°F (21°C); Derated to +/-5% when above 120°F or below 50°F (18° to 49°C)
Operating environment	-40°F to 140°F (-40°C to 60°C)
Sensitivity ranges	0-500FC
Adjustment range	10-140FC
Input voltage	10V (supplied by ballast)
Current:	Sink up to 25mA
Output voltage	1V (light) - 10 V (dark)
Wire leads	22 gauge Gray and violet to the Advance ballast White-green 2-wire loop cut for 10-second delay. Leave intact for 20-second delay to ballast
Sensor type	Blue enhanced photodiode
Size	Base diameter: 2.00" (50.8mm) Sensor diameter: 1.29" (32.8mm) Height: 1.23" (31.2mm)
Mounting	Mounting hole: 3/8" (9.5mm) Mounting medium: 3M™ double adhesive tape
Construction	Sensor housing meets flame-retardant requirements of UL standard 94HB
Certifications	ETL/UL 916
Warranty	Five-year limited