Our 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
**General Specifications**

- **Accuracy**: +/-1% @ 70°F (21°C); Derated to +/-5% when above 120°F or below 50°F (18°C 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

**Ordering Information**

| MODEL  | DLC7 | Continuous Dimming Control |