DESCRIPTION

- Exterior Daylight Sensor for detecting and transmitting light levels
- Light level range: 0 to 65,000 lux (0-6500 fc)
- Measures and reports changes in natural light
- Connects to control system data line
- Adjustable sun shield

PART NUMBERS

WPS-3741B
- For use with Dialog systems
- Replaces WPS-3741

WPS-5527B
- For use with LitePak systems
- Replaces WPS-5527

WPS-5941B-FTT
- For use with W2000 systems
- Replaces WPS-5941-FTT

WPS-5942B-FTT
- For use with LonWorks & Microthermo systems
- Replaces WPS-5942-FTT
- Replaces WPS-5942-FTT-MT

The updated mechanical design of the Douglas Lighting Controls Exterior Daylight Sensor improves weather resistence and provides a means to tune the amount of light being measured at the sensor with the provision of a sun shield. The electronic specifications remain the same to ensure backwards compatibility with existing Douglas systems.

SPECIFICATIONS

Power
- Signal draw: 15mA

Communication
- Digital Signal
- Maximum wire length 500ft.

Environment
- Stationary, non-vibrating, non-corrosive atmosphere & non-condensing humidity
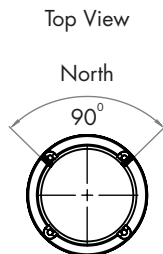- Ambient Operating Temperature:
  - –55°F to +130°F (–50°C to +55°C)

Dimensions
- Height: 3.5" (89mm)
- Maximum width: 2.0" (51mm)
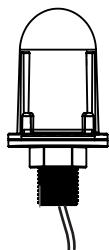- Integrated 0.5" chase nipple (includes lock ring)

Installation

- Performance is best maintained when installed in protected area to avoid inaccurate measurements due to build-up of dirt, dust, snow, or ice.
- Mount vertically on a fixed surface with sensor face directed North with a clear path to measure natural light.
- If Northern orientation is not available, position sensor to best capture natural light avoiding direct sunlight.
- If direct sunlight cannot be avoided, vertically center sun shield on sensor face.
- Once positioned, tighten chase nipple lock ring.
- Connect sensor wires as outlined below and on product (wire shielding is not required).
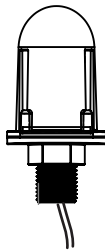
Top View
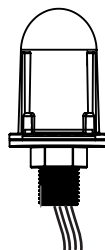
North

90°

Wiring

WPS-3741B

- Connect wires to Dialog network

WPS-5527B

- Connect Yellow and Black (non-polarized) wires to Litepak or WTP-4408

WPS-5941B-FTT

- Connect Black & White wires to 24Vac
- Connect Red & Green wires to LonWorks FTT-10 data line

WPS-5942B-FTT

3.5"
89mm

2.9"
74mm

1/2"-14 NPSL THREAD

2.0"
51mm