



PHD 516 Photodiode



The PHD 516 photodiode signals the controller to change the mode (*day, twilight and night*) of obstruction lighting systems based on preset ambient light parameters.

The PEC 510 photocell has been discontinued. The PHD 516 may be used in place of the PEC 510 with a converter. Please see reverse for PEC 510 converter details and part numbers.

FEATURES & BENEFITS

- Internal electronics are potted for maximum durability
- Includes options for either 1/2" MNPT or 1/2" FNPT
- Die-cast, copper-free aluminum construction is lightweight and corrosion resistant for long, reliable service
- Weight: 0.5 lbs (0.23 kg)
- Dimensions: 4.8 x 2.0 x 1.3 in (108.4 x 51.3 x 33.3 mm)
- Part number:
 - 1855516 - 20' cable pigtail
 - 1855517 - 50' cable pigtail
 - 1855518 - 75' cable pigtail

PHD 516 Photodiode

PEC 510 CONVERTER

The PEC 510 converter ensures the PHD 516 can be used on legacy lighting systems. The converter ships with a screw and double-sided sticky velcro tape to attach the converter inside the enclosure.

- AC power input: 120-240 VAC
- Part number: 1915000

UPGRADE KITS

The following upgrade kits ship with the converter materials outlined above and the noted length of cable pigtail.

- 1905365 - 20' cable pigtail
- 1905375 - 50' cable pigtail
- 1905370 - 75' cable pigtail



FAA AC 150/5345-43H

White Obstruction Lights Section 3.4.4.1

The light unit intensity must be controlled by a photocell facing the northern (*polar*) sky. White obstruction lights must automatically change intensity steps when the ambient light changes:

- **Day intensity to twilight intensity** — illumination decreases below 60 foot-candles (*645.8 lux*) but before it reaches 35 foot-candles (*376.7 lux*)
- **Twilight to night intensity** — illumination decreases below 5 foot-candles (*53.8 lux*) but before it reaches 2 foot-candles (*21.5 lux*)
- **Night to twilight intensity** — when the illumination increases above 2 foot-candles (*21.5 lux*) but before it reaches 5 foot-candles (*53.8 lux*)
- **Twilight to day intensity** — illumination increases above 35 foot-candles (*376.7 lux*) but before it reaches 60 foot-candles (*645.8 lux*)

Red Obstruction Lights Section 3.4.4.2

If automatic control is used, the light unit must turn on when ambient light decreases to 35 foot-candles (*367.7 lux*) and turn off when the ambient light increases to 60 foot-candles (*645.8 lux*). Single L-810 light units are controlled in a manner compatible with the particular installation.

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