

DANLERS

Installation notes

Variants

As DANLERS design and manufacture in the UK, variants can be supplied, coded by the following suffixes and applied in this order:

The prime part number for this unit is shortened to **CFPH10V** and **CF10V** respectively followed by the following codes:

- **24V** 24V (ac or dc) operation
- **VF** Volt Free contacts
- **G** or **LG** Gold or Logic Gold contacts
- **NC** Normally Closed contacts
- **3M** 3 Metre (or other) length flex

Variant details are covered in an enclosed addendum sheet if applicable.

Troubleshooting

The load will not switch on:

- The LUX adjuster is set too low and is inhibiting the switch.

The lamps will not meet the design lux level.

- This unit cannot increase the maximum output of the lamps, if they stop getting brighter as the LUXdim is turned up then they are on full, the product is then correctly set for the lamps being controlled.

Precautions and Warranty

This product conforms to BS EN 60669-2-1.

Please ensure the most recent edition of the appropriate local wiring regulations are observed and suitable protection is provided e.g. 6 amps over current, 1kV over voltage. Please ensure that this device is disconnected from the supply if an insulation test is made.

This product is covered by a warranty which extends to 5 years from the date of manufacture.

Products available from DANLERS

- PIR occupancy switches • Daylight linked dimmers • Manual high frequency dimmers
- Photocells • Radio remote controls • Time lag switches • Outdoor security switches
- Dimmers • Heating, ventilation and air-conditioning controls • Bespoke / O.E.M. products

Please call for more information or a free catalogue, or visit our website.

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Ceiling flush daylight linked dimmer

CEFL PHDD 10VDC

CEFL DD 10VDC

DANLERS ceiling flush daylight linked dimmers can be used to control high frequency 1-10VDC dimmable ballasts. The product can be flush mounted into suspended and plasterboard ceilings (diagram A). They require a neutral connection and include a 2x 2metre connecting flexes one for the supply and the other for the 1-10V control, this makes installation quicker and easier. This product requires a neutral connection.

The Daylight linked dimmer will control the 1-10V ballast, dimming the artificial lights so that the total light level below the PIR is held at the lux level set by the second lux adjuster at the back of the product (LUXdim, diagram C). This can be set by the user to between approximately 100 and 1000 lux.

The CEFL DD 10VDC can only dim the ballast, whereas the CEFL PHDD 10VDEC can also switch it on and off which it does via a separate Switch Line output governed by the lux level set by the side LUX adjuster. (diagram D)

Loading

These Daylight Linked Dimmers can switch up to:

- 6 amps (1500W) of dimmable fluorescent lamps.
- 2 amps (500W) of dimmable LED lamps.

They can dim up to 20x 1-10V dimmable ballasts, assuming each ballast has a constant current output of 1mA.

Installation procedure

1. Please read these notes carefully before commencing work.
In case of doubt please consult a qualified electrician.
2. Make sure the power is isolated from the circuit.
The Daylight linked dimmer should be connected as shown in diagram B:

Thick wire		Thin wire	
Brown	L Live in	Red	+ 1-10V control
Blue	N Neutral in	Blue	- 0V reference
Black	SL Switched Line out (For CEFL PHDD 10VDC only)		

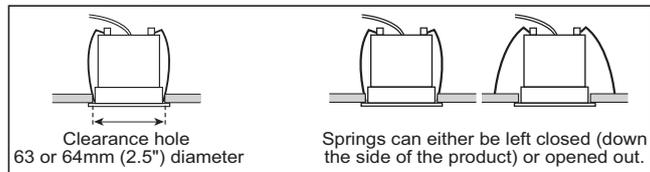
Lux set-up

The single adjuster spindle on the back of the PIR (LUXdim) is used to regulate the automatic daylight linked dimming function lux level (diagram C). This must be adjusted in situ so that the desired level of brightness is achieved under the luminaire(s) being controlled.

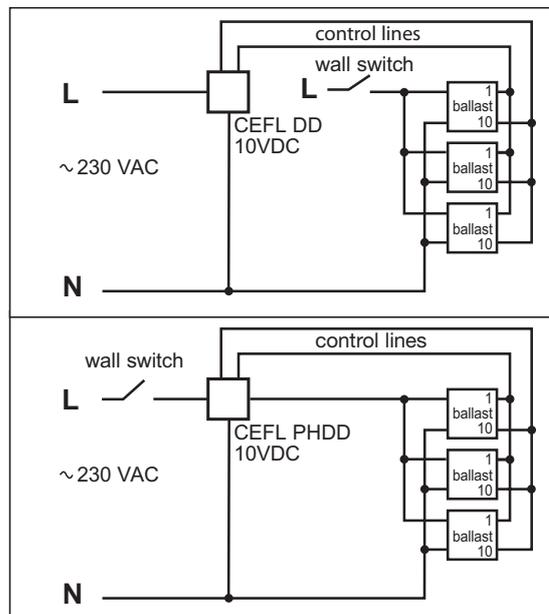
For the CEFL PHDD 10VDC only:

The switching LUX is best set up when the local ambient light is at approximately the minimum desired working light level. With LUX set fully clockwise wait for the load to switch off. Rotate the LUX adjuster slowly anticlockwise (- to +), until the load switches on. (diagram D)

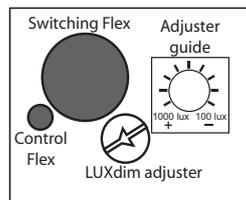
A: Mounting diagram



B: Wiring diagrams



C: Luxdim, on back of product



D: Lux switching point, on side of product (CEFL PHDD 10VDC only)

