

Variants

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

- 12V or 24V 12V or 24V (ac or dc) operation
- VF Volt Free contacts
- NC Normally Closed contacts
- G or LG Gold or Logic Gold contacts

The details of these variants are covered by an enclosed variant addendum if applicable.

Trouble shooting

The lamp switches off about 5 seconds after it switches on.

- Too much artificial light is entering the dusk switch.

The lamp switches on too early in the evening

- Move the Lux adjuster further towards '-'

The lamp switches on too late in the evening

- Move the Lux adjuster further towards '+'

The dusk switch stops working

- Ensure the unit is mounted correctly so that no water can enter.

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.

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Dusk Switch

DUSW

DANLERS Dusk Switch can be surface mounted onto an external wall. It will switch outdoor lights on at dusk and switch them off after a chosen time delay or when it becomes light again, repeating each day. The point at which the lights switch on is controlled by a Lux adjuster and the length of time the lights remains on for is set via a Time adjuster.

Loading

The DUSW should only be connected to a 230V 50Hz ac supply.

It can switch the following loads:

- 6 amps (1500W)
Incandescent or mains halogen lamps
(recommended with integral safety fuse)
- 4 amps (1000W)
Electronic or wire wound transformers.
Fluorescent lamps (high frequency or soft start)
- 2 amps (500W)
Compact fluorescent or LED lamps (about 50 lamps)
- 1 amp (250W)
Most metal halide lamps and fans.

Installation procedure

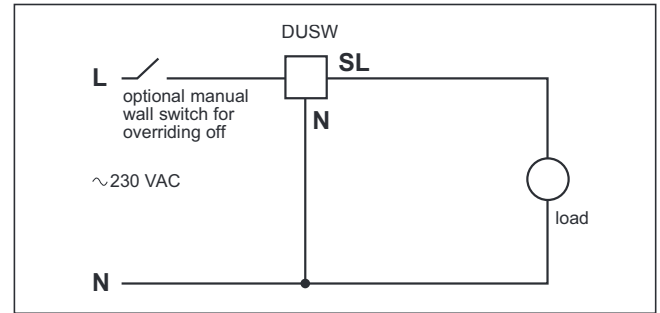
1. Please read these notes carefully before commencing work.
In case of doubt please consult a qualified electrician.
2. The switch should be sited such that it can receive more daylight than artificial light. Ensure that any artificial light is not too close to the switch or shining directly into it.
3. The switch must be mounted via the four pre-formed holes only, no additional holes should be drilled through the enclosure. The spindles must point down, with room below to adjust them.
4. The cable enters from above, either through a 20mm threaded conduit or via the cable gland provided, in which case the cable must be circular with a diameter of between 6 and 12mm.
5. Make sure the power is isolated from the circuit.
6. The detector should be connected as shown in diagram A
L Live in
N Neutral in
SL Switched Line out.
7. Once the wiring has been completed and verified, switch on the supply and test the operation.

Time and Lux set-up

The time for which the lamp will stay on for can be adjusted from approximately 2 to 16 hours as shown in diagram B.

The LUX is best set up when the ambient light is at approximately the level at which you wish the lights to come on at. With the external LUX adjuster set fully clockwise to '-' (Dark) wait for the DUSW switch to turn off. Rotate the LUX adjuster slowly anticlockwise to '+' (Dark to Light), at each new position wait about 5 seconds for the DUSW to react to the change.

A: Wiring diagram



B: Time and Lux adjustment

