ELVO-LUX v1.0

The ELVO-LUX is a Sun-Down sensor switch

- High power DC electronic switched output
- Robust waterproof (IP66) and UV resistant construction
- Easily switch selectable
  - Runtime limit
  - Light sensitivity (high/low)
  - Under-volt lockout for battery protection
- Battery friendly operation with super low self-power consumption (15 micro-amps) and under-volt lockout

On default settings: the ELVO-LUX will turn its output on when the light level dims below 10 lux for at least 1 minute uninterrupted. It will then remain on until either 3 hours has elapsed or the environment is above 10 lux again for 1 minute uninterrupted.
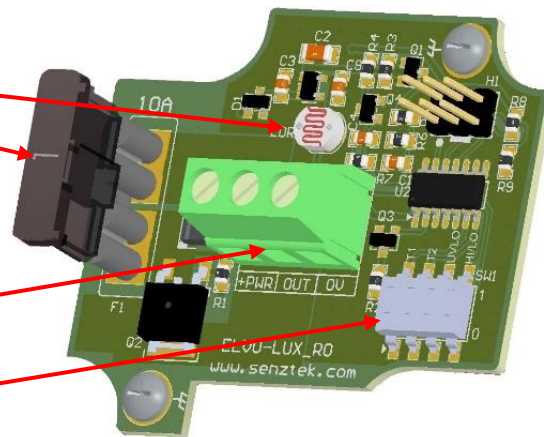
If you want to change the settings, unscrew the cover and use a fine flat blade screwdriver or similar to change the switch positions

Internal circuitry

Light Sensor

10 Amp automotive fuse
- Use only quality fuses, Beware low quality fuses that might not work

Screw wires into here

Settings Switches

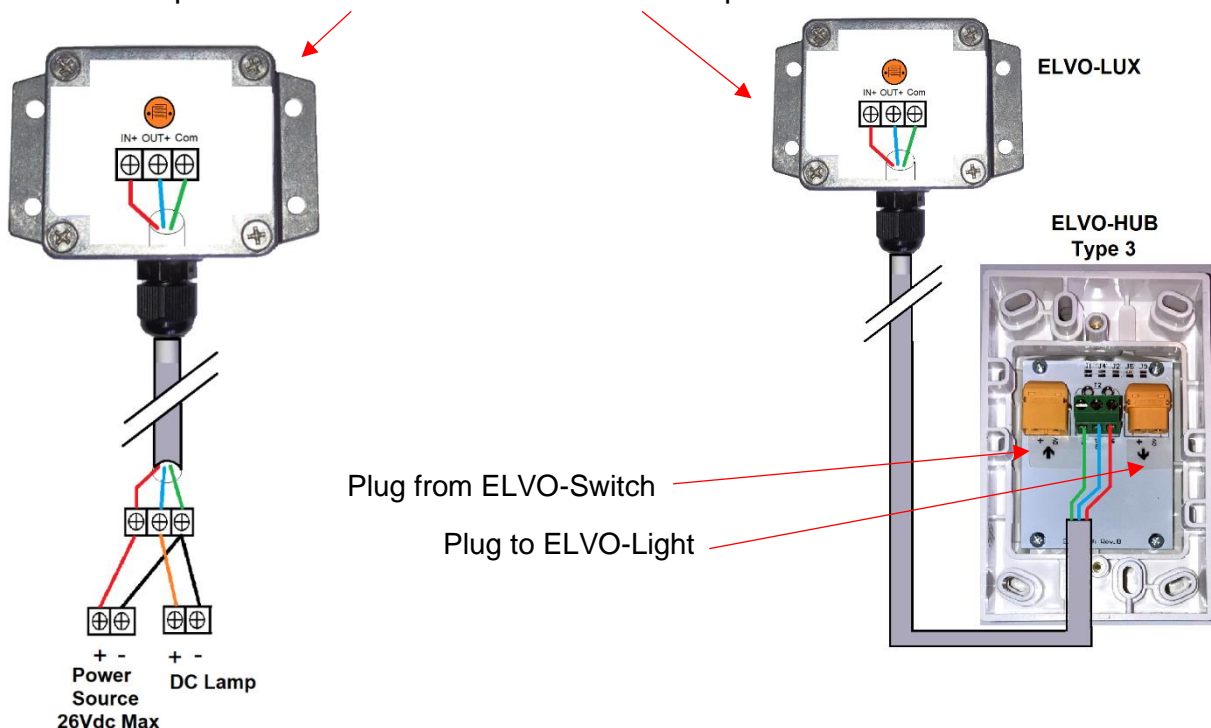|					
T1	**0**	**0**	**1**	**1**	
T2	**0**	**1**	**0**	**1**	
UVLO	**3 Hours max runtime**	**6 Hours**	**10 Hours**	**Continuous** -stays on when dark	
HI/LO	Undervolt shutdown, 11 / 22 volts (12 / 24 battery)				
	Sensitivity – 10 lux trigger / 75 lux trigger				

When Sensitivity is set low, it takes more light to trigger day mode (reset) and the sooner it triggers a dark switch on with falling light levels. Setting low is good for bright environments like directly outside. The default is high sensitivity

Note: The output will turn off and the unit will go into extreme low power standby mode when the input voltage drops below 11 Volts DC (or 22V if 24 Volt UVLO)

Installation:

Light sensing area

1. Position ELVO-LUX to sense the setting sun
   a. If possible avoid direct exposure to elements especially driving rain
   b. If the sensor cannot directly sense the sun, increase sensitivity to high on the internal settings switch
2. Run a 7mm (max) outside diameter power cable to the ELVO-LUX. Cable should be UV resistant or run in conduit
3. Wire as per illustration or the ELVO-HUB example

Plug from ELVO-Switch

Plug to ELVO-Light

Note: DC power only, no AC power.

Specifications:

Input Voltage:	11 – 26 Volts DC
Output:	Input Voltage @ 10A max
Quiescent Current:	20uA avg on standby
	80uA avg when output is on
Dimensions:	58mm W x 65mm (94mm flange) L x 35mm H
Weight:	165 gms
Ambient temperature	50°C max