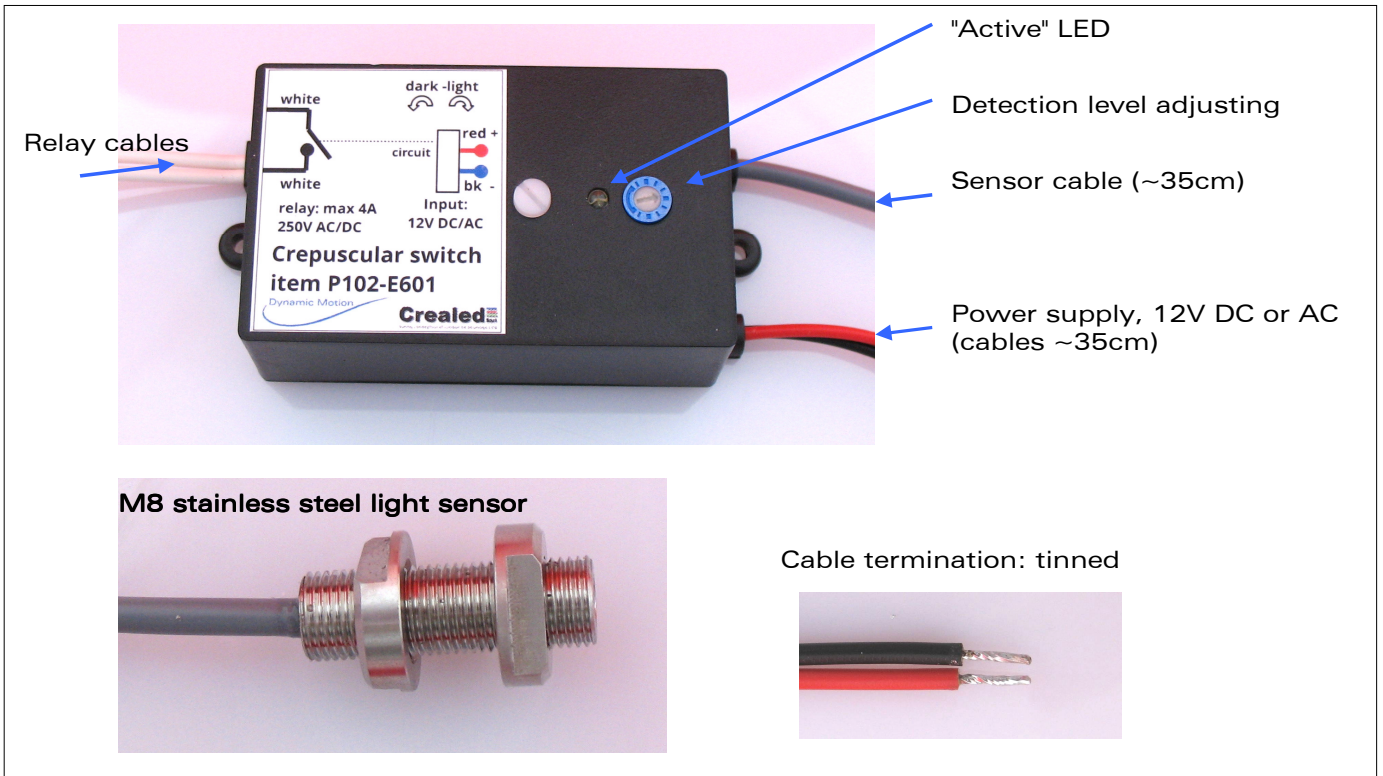


## Crepuscular switch 12V



### Overview

The crepuscular switch is intended to use for outdoor LED illumination in

- Advertising
- Decoration
- Illumination

#### Features

- Robust design: stainless steel sealed sensor
- Sensor mounting from internal side, discrete (Ø8mm hole, Ø14mm nut)
- Suitable for 1 to 16mm wall thickness
- Powered by 12V source
- Can be supplied by a 90-240VAC to 12V switching mode source, allowing worldwide use without any setting

Parameter	unit	value
1 Supply voltage	V	Nominal: 12V, range 10V to 19V Red-black polarity: indifferent Accept AC or DC source
2 Current consumption (crepuscular module alone)	mA	relay OFF: 5mA typ. Relay ON: 35mA (@12V)
3 Relay contact current capacity	A	4 (Protected by a 5A slow blow fuse)
4 Relay contact voltage capacity	V	6 to 250V DC/AC
5 Ambient temperature range	°C	-20 to +65
6 Relative humidity	%	up to 100%
7 Protection		IP40
8 Altitude	m	up to 4000m
9 Cables section	mm <sup>2</sup>	supply: 0.5 Relay cables: 1.0
10 Cables length	cm	35cm to 39cm
11 RoHS: yes		
12 Reach: not affected		
13 BTBF: typical 100000 switches (resistive load)		
14 Warranty: 2 years		

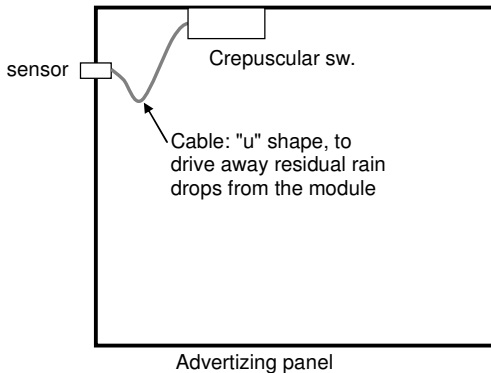
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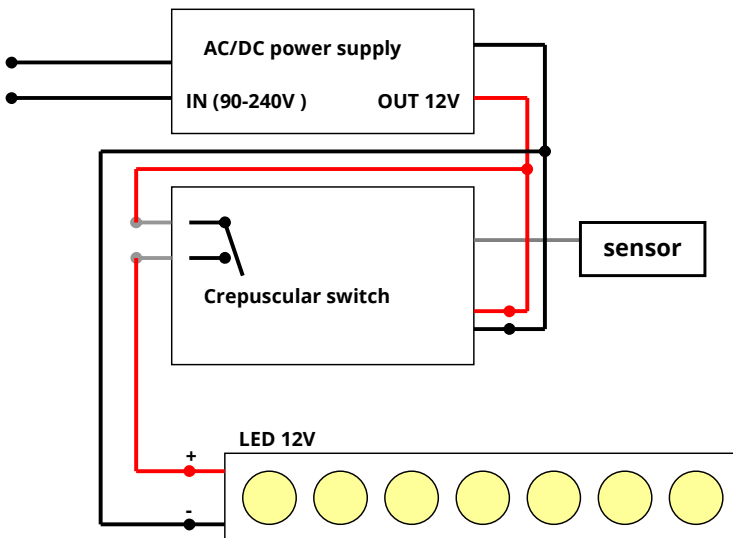
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**Instruction of use**

1. Select the sensor placement: the best place is where parasitic light is low, on an oblique or vertical surface, to avoid covering by snow or leaves
2. Place the sensor across a hole diameter 8.5 mm
3. Use silicone or o-ring to prevent rain water going inside
4. Fix the module inside the advertising panel; the sensor cable should have a "u" shape
5. Connect the crepuscular power input to a 12V source (schematics below)
6. Connect the LED to the relay and power source (schematics below)
7. If the advertising panel is metallic, connect AC ground to the panel
8. Adjust and check detection level (blue potentiometer) using a small slotted screwdriver (size 0) under real conditions (with normal traffic lights, ...)



**Figure 1, module placement for ideal immunity against rain water and condensation**



**Figure 2, simple AC source connection**

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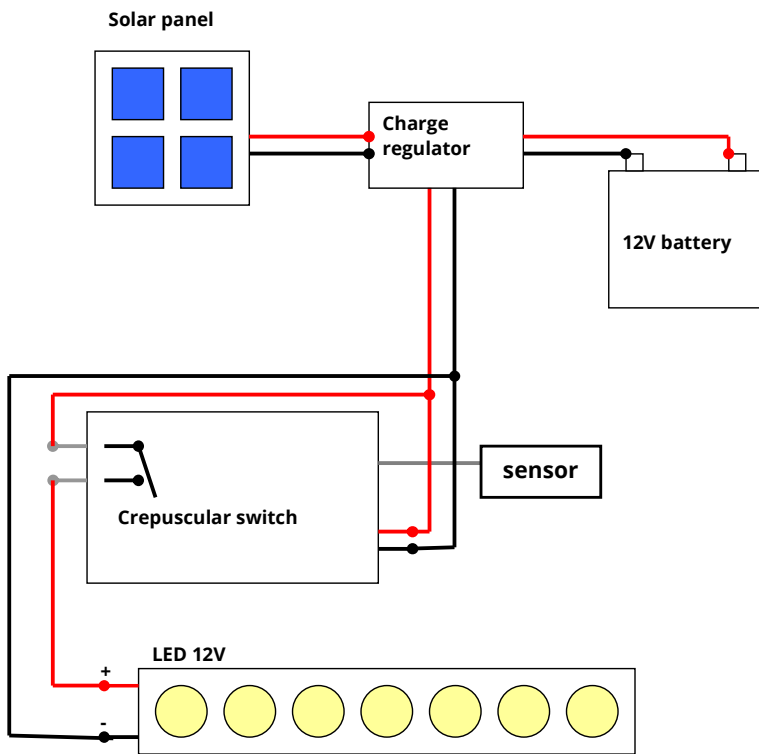


Figure 3, solar operated system

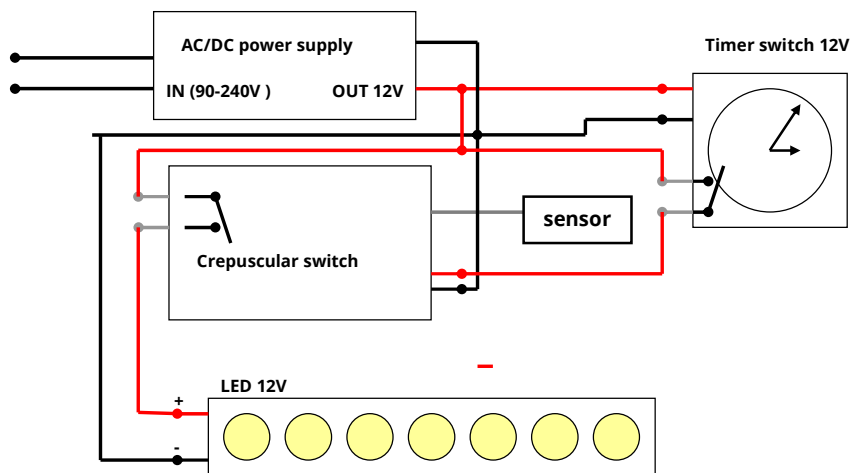


Figure 4, using an additional timer switch

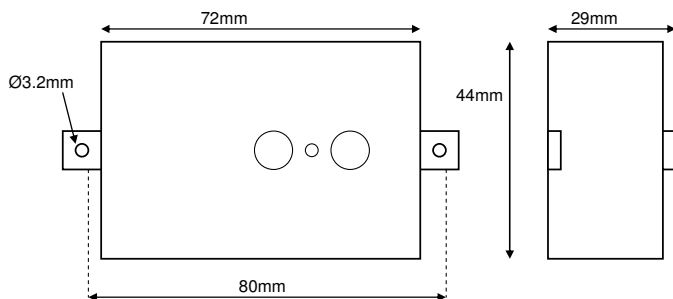


Figure 5, size

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