



# Powerflare Caution Light

## Manual

### BATTERY & RECHARGEABLE VERSION

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## THE POWEFLARE LED CAUTION LIGHTS

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The Powerflare LED caution lights are all-purpose signal lights that can be used fast and easily in various emergency situations. An uncomplicated and fast marking with the Powerflare LED is essential for the safety of people who are involved in an accident and also for the ambulance. The caution lights have a wide range of use due to their compact size (Ø 10,5 cm, height: ~3,5cm) and the strongly sticking Neodym magnet. The useful LED caution light can indicate dangerous areas everywhere it is necessary. Besides the robust body, which even can endure a run over by a heavy truck, it is the LED technology that is the reason for its success. 16 extra bright LED lights provide the Powerflare caution light with high light intensity and visibility on a high range. By daylight the Powerflare can be seen from 300m, and 800m at night. The Powerflare LED light is water resistant and floats on the water surface, so it is a useful tool for divers and skippers as well. Over the water, the caution light is visible from stunning range of 15km. The performance package by Powerflare is convincing. The LED caution light can be used either with an easy exchangeable battery or with a Powerflare rechargeable battery (included recharger).

### SPECIFICATIONS

- 16 extra bright LEDs with high light intensity
- the color of the LEDs accords to the color of the case
- fast deployable
- convenient size (diameter ~10,5cm; height ~3,5cm)
- strong magnet
- tough case made of extra strong plastic with flexible TPR-plastic cover
- Waterproof and floatable (suitable for divers and skippers)
- 9 different lighting settings/sequences
- visibility daytime: up to 300m
- visibility nighttime: up to 800m
- visibility water/air: up to 15km

## SUPPLIED

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### BATTERY-VERSION:

- 1x Powerflare LED Caution Light
- 1x Battery

### RECHARGEABLE BATTERY-VERSION:

- 1x Powerflare LED Caution Light
- 1x Rechargeable battery (inside)
- 1x Charging magnet
- 1x Charger for 230V
- 1x Carcharger

**If transport damages have occurred or parts are missing, contact your dealer immediately.**

## FEATURES

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- Weight: 212 g (without accessories)
- Dimensions: 3,5 cm height, 10,5 cm diameter (without accessories)
- Storage Temperature: - 40° C ~ + 89°C
- Operating: - 20°C ~ + 57°C
- Battery: CR-123 Photo battery or. rechargeable battery 3.7v Li-Ion 750mAh

The Powerflare LED warning light is equipped with a powerful Neodym magnet. Thus, it can be attached to all metallic surfaces (eg car bodies). The magnet is mounted recessed so that no direct contact with the surface is given and scratches are practically impossible.

## WARNINGS

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**Never look directly into the LEDs - this can lead to permanent damage to the eyes.**

## **USE – RECHARGEABLE VERSION**

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Before switching the battery needs to be charged. Put the charging magnet in the middle of the back of the Powerflare LED caution light, so that the positive and negative poles have direct contact with the screw.

Always pay attention to the correct polarity. Plus and minus charge is found on the contacts on the housing, as well as on top of the magnet.

After preparation the charging magnets can be connected via the supplied power cable with the charger.

The charging time is approximately two hours. The charging activity is indicated by a status LED on the charging magnet. As long as the battery is charged, the LED is green. The last ten percent of the batteries are charging extremely slowly to conserve battery power. Thus, a continuous loading is possible. The status LED indicates after a long time, that the last 10% are loaded by the color changes to red.

### **STATUS-LED**

- green → charging
- red → ready to use

After charging, the LED caution light can be switched on by using the ON / OFF switch at the top of the housing.

**The rechargeable LED caution light should not be opened.**

## USE – BATTERY VERSION

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### 1. OPEN HOUSING

To open the housing, the two aluminum screws (Fig. 1) must be solved counterclockwise with a suitable screwdriver on the back of Powerflare LED caution light.

Then the cover can be removed. Do this by pressing with your fingers against the four plastic tabs and remove the cover.

**Caution!** Don't use any tools for removing the cover. This can cause damage to the housing.

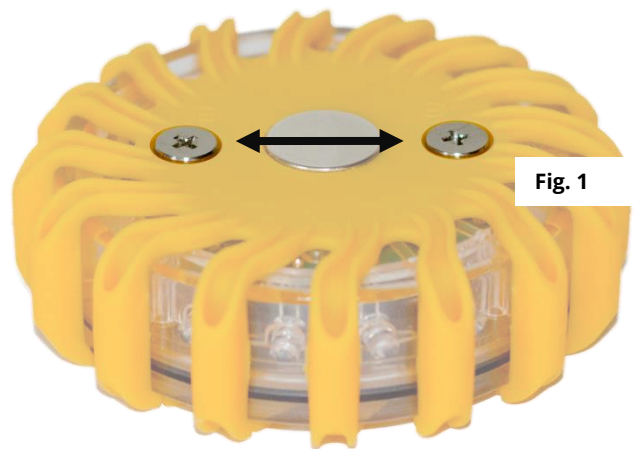


Fig. 1

### 2. INSERT THE BATTERY

Insert the battery into the plastic bracket. Observe the correct polarity. Markings can be found on the plastic holder. To facilitate the next battery changing, the battery can be inserted into the annular rubber strap which can be found by opening the case in the plastic holder.

### 3. FUNCTION TEST

Now, a function test must be performed by gently pressing the button. The LEDs light up, the battery is inserted correctly. If no function is present, the seat and the correct polarity of the battery should be checked.

### 4. ASSEMBLING

Assemble the Powerflare LED caution light in reverse order - note the position of the plastic tabs. When donned the cover, make sure that the black seal ring slides smoothly into the case. Do not over tighten the aluminum screws as it could break off.

### 5. SWITCH ON

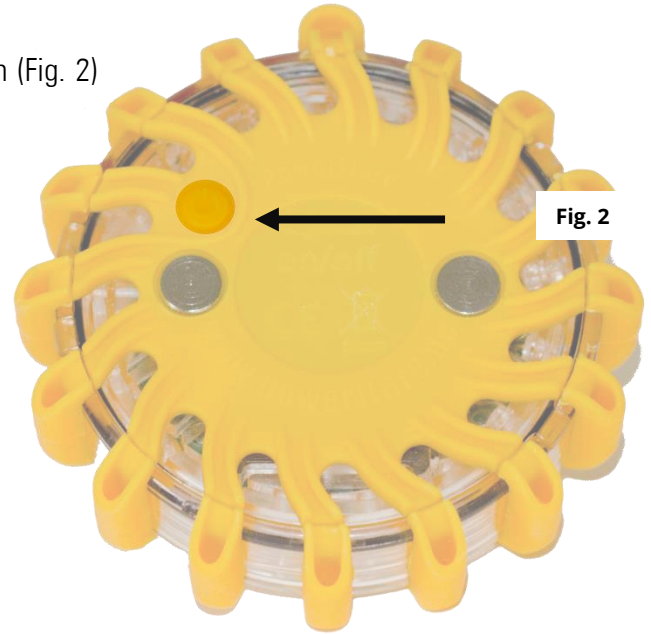
Press the ON / OFF button (Fig. 2) on the top of the housing.

## OPERATION MODES

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The operating modes are switched through the button (Fig. 2) in the following order:

1. Rotation
2. 3-way flash
3. 1-way flash
4. alternately
5. SOS-Mode
6. All LEDs permanently on
7. All LEDs permanently on bright
8. 2 LEDs permanently on
9. 4 LEDs permanently on
10. Off



## MEMORY FUNCTION (SAVE STATE)

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The current mode can be saved by pressing the button for 2 seconds. Saving is confirmed by 5-flashes of two LEDs. Next time the stored mode is active.

## WAVELENGTH AND LIGHT LEVELS

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- yellow (orange): 580nm / 6,000~9,000 mcd
- orange: 580nm / 6,000~9,000 mcd
- red: 655nm / 6,000~9,000 mcd
- blue: 464nm / 3,000~6,000 mcd
- green: 12,000 mcd
- white: compl. white spectrum / 13,000~16,000 mcd

## TIPS FOR USE

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Put the lights on the area / points you want to select. Make sure no sharp objects lie under the light. If a heavy vehicle rolling over the light and it does not lie flat on the ground, the light can be damaged. You can also use the caution light on a backpack, the uniforms or in the water. Use for attaching a carabiner.

## **OPTIONALES ACCESSORIES**

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- Powerflare boxes
- Powerflare replacement battery
- Nylon bags
- Replacement Charging sets



## EG CERTIFICATION OF CONFORMITY

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Der Hersteller  
the manufacturer

**Life is Simple GmbH & Co. KG**  
**Paul-Engelhard-Weg 50h**  
**48167 Münster**

erklärt in alleiniger Verantwortung, dass die  
hereby declares that the

### **Powerflare LED Warnleuchte**

auf die sich diese Erklärung bezieht, mit den folgenden Normen oder normativen Dokumenten  
übereinstimmt:

which is subject of this declaration, complies with the following directives:

**2004/108/EG Elektromagnetische Verträglichkeit**  
**2004/108/EG Electromagnetic Compatibility (EMC)**

Nachweis durch die Einhaltung folgender harmonisierter Normen:  
Evidence through the compliance with the following harmonized standards:

EN 55015:2000 + A1:2001 + A2:2002

Grenzwerte und Messverfahren für Funkstörungen von elektrischen Beleuchtungseinrichtungen und ähnlichen Elektrogeräten

EN 61547:1995 + A1:2000

Einrichtung für allgemeine Beleuchtungszwecke - EMV-Störfestigkeitsanforderungen

EN 61000-3-3:1995 + A1:2001 + A2:2005

Elektromagnetische Verträglichkeit (EMV) - Teil 3-3: Grenzwerte - Begrenzung von Spannungsänderungen, Spannungsschwankungen und Flicker in öffentlichen Niederspannungs-Versorgungsnetzen für Geräte mit einem Bemessungsstrom  $\leq 16$  A je Leiter, die keiner Sonderanschlussbedingung unterliegen

EN 61000-3-2:2000 + A2:2005

Elektromagnetische Verträglichkeit (EMV) - Teil 3-2: Grenzwerte - Grenzwerte für Oberschwingungsströme (Geräte-Eingangsstrom  $\leq 16$  A je Leiter)

Anbringung des CE-Zeichens: Auf dem Produkt oder Verpackung

Position of the CE-mark: on the product or on the packaging.



Münster, 11.09.2009

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(Ort und Datum der Ausstellung)

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Dr. Jan Rotermund

Leiter Qualitätssicherung

## YOU GOT THIS PRODUCT FROM

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