



# KSE-LIGHTS MCII Series CAP Lamp Instruction Manual

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MCII Series CAP Lamp

The product complies with the following standards:



EN 60079-0:2018

EN 60079-11 :2012

EN 60079-28 :2015

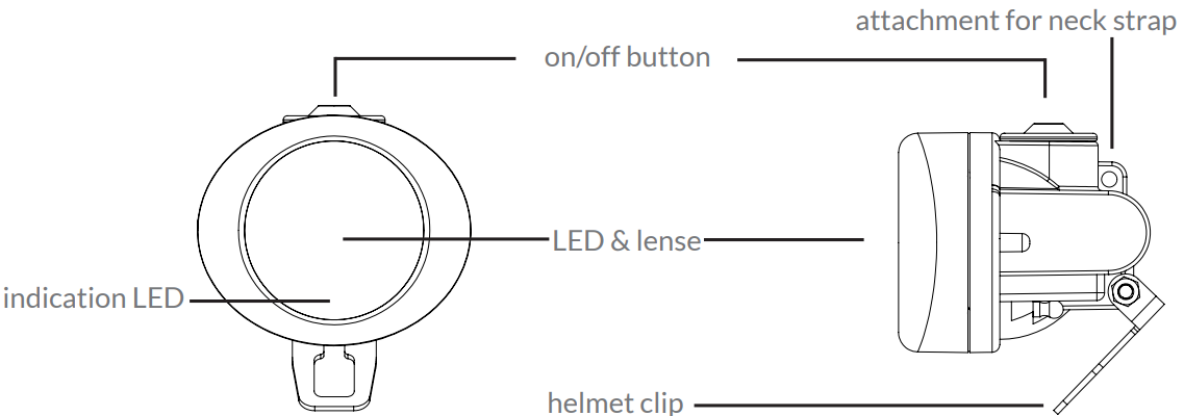
EN 60079-35-1:2011


IBExU19ATEX1087













Special conditions for use in the Ex atmosphere:

- 1. The cap lamp can be used in an extended ambient temperature of -15 °C to +50 °C
- 2. Damaged equipment must be taken out of service immediately and out of potentially explosive atmosphere.
- 3. The cap lamp may only be charged outside the hazardous area using the appropriate charger.
- 4. The light window must never be completely covered during operation in a potentially hazardous area.

	II 1G Ex ia op is IIC T4 Ga I M1 Ex ia op is I +H2 Ma EN 60079-35-1 -15°C <Ta< +50°C (+60°@T2)	
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 Bold highlighted specifications are only valid for MCII-POWER!

	70/180/(230) lumens		IP67		<9 hours charging
	80/140/(190) meters		165 grams		precision optics technology
	30/14/(6) hours		Li-ion battery		5000 Kelvin
	emergency-/work-/ (POWER)-Light		>80% capacity after 500 cycles		glass-fibre reinforced plastic

FIRST USE

**The cap lamp must be fully charged before first use.**

To do this, connect the charger to a suitable power source and push the lamp into the charger. Make sure that the lamp is fully inserted into the charger.

**When the lamp is correctly connected to the charger, an indicator LED in the lamp will light up red.**

The LED on the charging cup indicates the charging status:

Red → lamp is charging

Green → lamp is fully charged

The charging current switches off automatically when the battery is fully charged.

**Charging is only permitted in non-hazardous areas!** Only use original KSE-LIGHTS chargers!

**After the lamp has been fully charged,** the lamp can be switched on using the on/off switch.

**By pressing the switch several times, the individual modes are switched through as described.** After the last mode, the lamp switches off.

**The lamp may be used and recharged at any time without negatively affecting the battery.**

**The cap lamp has several mounting options:**

-to the head with the headband (KS-5525)

-on the helmet with an variable helmet adapter

-at the helmet with helmet spider (KS-5526)

-on the body with the neck strap (KS-5020)

**The lamp is resistant to oil, grease, glue, hydrocarbon, turpentine substitute and various cleaning agents.**

Wash the lamp body and the windscreen with lukewarm soapy water. Do not use acid or abrasive cleaners, especially not on the windscreen.

**Do not use a high-pressure hose!**

Technical maintenance or repair may only be carried out by KSE-LIGHTS or an authorised person.

**KSE-LIGHTS gives a two-year warranty on the product for material and manufacturing defects.** Excluded from the guarantee are normal wear and tear, oxidation, changes, improper use, storage and maintenance as well as damage caused by negligence or use for which the product is not intended.

The warranty on the accumulator is limited to one year. **If the serial number is removed, the warranty is immediately void.** Customer service in the event of a warranty claim, please return the lamp to the dealer with proof of purchase. It will be repaired or replaced.

**Do not open the lamp or charger under any circumstances.** Do not use or recharge the lamp if it is defective. No warranty claims can be made for consequential damage caused by defective parts. Failure to do so will invalidate the warranty and the operational safety.

**KSE-LIGHTS accepts no liability for direct, indirect and accidental consequences, as well as any other form of damage due to the use of this product.**

## SAFETY INFORMATION

- Do not use damaged lamps, chargers or sockets to charge the lamp.
- Never place the switched-on lamp on the light window when working in potential dangerous atmosphere.
- Do not pull the power cord to remove the plug out of the socket.
- Only use original KSE-LIGHTS chargers.
- The use of other chargers may adversely affect the life of the product. KSE-LIGHTS is not responsible for consequential damage, if parts are used which are not authorised by KSE-LIGHTS.
- Protect the charger and accumulator from damage.
- Never store the products outside the approved temperature range from 0°C to +45°C.
- Never charge the product outside of the approved temperature range from -20°C to +35°C.
- Never use the product at temperature range from -15°C to +50°C.

## TROUBLE SHOOTING

**When using the cap lamp and charging adapter some malfunctions or operator failures can appear, here are the solutions:**

**The cap lamp can not be turned on.**

Insert the lamp into the charger and try again. Should the Lamp still show no response, please contact our product

service.

**The lamp shows no response to insertion in the charger.**

Disconnect the charger from the supply voltage and try again. Should the lamp still show no reaction, please contact our product service.

**Both charge indication LEDs are turned on.**

The lamp is fully charged and the charging controller has switched to standby mode.

Remove the lamp from the charger, switch on shortly and insert again.

Now only one LED should light up.

Repeat the process if both LEDs are still turned on.

**After the lamp is fully charged, the green charging indication LED turns off.**

**Solution:** The lamp is fully charged and the charger has switched to standby mode. Remove the lamp shortly out of the charger, switch on shortly and replace back in the charger.





Now an indication LED should light up again.

**Declaration of Conformity**

according to directive 2014/34/EU, 2014/30/EU and 2014/35/EU

Manufacturer:	KSE-LIGHTS GmbH
Address:	Thüngenfeld 8 58256 Ennepetal
Product:	LED cap lamp and associated charging units
Types:	MCII series incl. chargers KS-5330-M-DE & KS-5010-M-DE
Description:	LED cap lamp with a compact plastic housing and attachment for work safety helmets. The lamp includes a light source and a rechargeable accumulator. It is not intended to be opened.

EU type examination certificate: IBExU19ATEX1087

Marking:	 I M1 Ex ia op is 1 + H2 Ma EN 60079-35-1 -15 °C ≤ Ta ≤ 50 °C	 II 1G Ex ia op is IIC T4 Ga
or	 I M1 Ex ia op is 1 + H2 Ma EN 60079-35-1 -15 °C ≤ Ta ≤ 60 °C	 II 1G Ex ia op is IIC T2 Ga



Issuer of EU type examination certificate:  
IBExU Institut für Sicherheitstechnik GmbH,  
Fuchsmühlenweg 7  
09599 Freiberg


Applied standards for ATEX directive:	
EN 60079-0:2012+A11:2013	EN 60079-28:2015
EN 60079-11:2012	EN 60079-35-1:2011

Applied standards for EMC directive:	
EN IEC 55015:2019+A11:2020	EN 61000-3-3:2013+A1:2019+A2:2021
EN IEC 61000-3-2:2019+A1:2021	EN 61547:2009

Applied standards for LVD directive:	
EN IEC 60598-1:2021+A11:2022	EN 62493:2015
EN 60598-2-4:2018	

KSE-LIGHTS GmbH  
Ennepetal, 11.05.2023

Signature:

  
Nikolai Seel (General management)

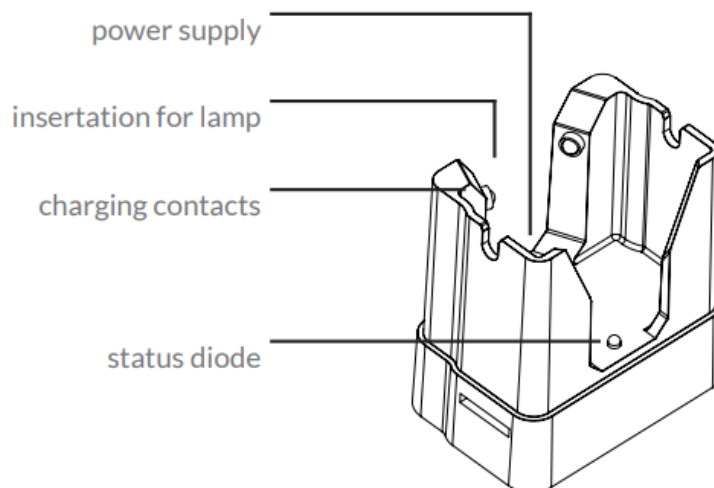
This declaration certifies compliance with the indicated directives but implies no assurance of properties.  
The safety of the product information should be observed. This statement turns off automatically whenever changes are made to the product, that have not been matched with the company KSE-LIGHTS GmbH.



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**MCII-SERIES CHARGER**  
**KS-5330-M/KS-5010-M-DE/KS-2036-M-DE**



**KS-5330-M-DE**

AC 110 - 230V , 50/60Hz incl. EU/UK/AU/US



**KS-5010-M-DE**

DC 12-24V CAR PLUG

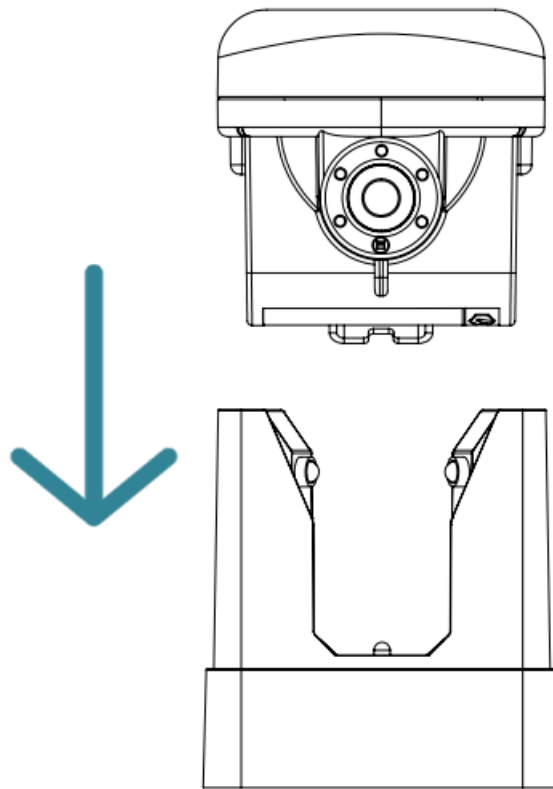


**KS-2036-M-DE**

DC 12V for installation



**FIRST USE**



1. Insert the cap lamp in the charger as shown in the picture. The status LED in the charger lights red. If the status LED turns to green, the lamp is fully charged.
2. Please make sure, that there are no objects between the charger and the cap lamp.
3. The cap lamp can be charged and recharged anytime.

### SAFETY INFORMATION

Do not use damaged lamps, chargers or power sockets to charge the lamp. Do not pull the power cord to remove the AC adapter. Only use original KSE-LIGHTS chargers. The use of other chargers may have a negative effect on the life of the product. KSE-LIGHTS is not liable for consequential damage if parts are used which are not approved by KSE-LIGHTS.

Protect the charger and the accumulator from damage.

Never charge the product outside the approved temperature range from 0°C to +35°C.

The chargers may only be operated with the power supply unit supplied by KSE-LIGHTS which has the following characteristics.

If a charger should be supplied with voltage by other means, the voltage source must have one of the following characteristics:

- SELV or PELV system, where the output voltage does not exceed 50 VAC or 120 VDC
- Safety isolating transformer that meets the requirements of IEC 61558-2-6 or a technically equivalent standard.
- Directly with a power supply according to IEC 60950, IEC 61010-1 or a technically equivalent standard.
- Directly from cells or batteries, provided the cell voltage is the same.



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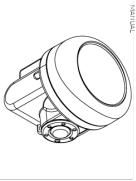
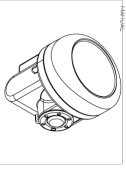
Germany

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[www.shop.kse-lights.com](http://www.shop.kse-lights.com)

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Documents / Resources

 <p>MCII SERIES   KSE-LIGHTS</p>	<p><a href="#">KSE-LIGHTS MCII Series CAP Lamp</a> [pdf] Instruction Manual KS-7620-MCII PERFORMANCE, KS-7630-MCII POWER, MCII Series CAP Lamp, MCII Series, CAP Lamp, Lamp</p>
 <p>MCII SERIES   KSE-LIGHTS</p>	<p><a href="#">KSE-LIGHTS MCII Series Cap Lamp</a> [pdf] Instruction Manual MCII Series Cap Lamp, MCII Series, Cap Lamp, Lamp</p>

References

-  [KSE Lights](#)
-  [KSE-LIGHTS – Leuchten für maximale Sicherheit | KSE-LIGHTS](#)