

**GRAH<sup>®</sup>**  
LED LIGHTING

**Mounting / operation instruction**

Montage / Betriebsanleitung

**Exterior street luminaire**

Aussen Strassenleuchte

**LHSL<sup>®</sup>**

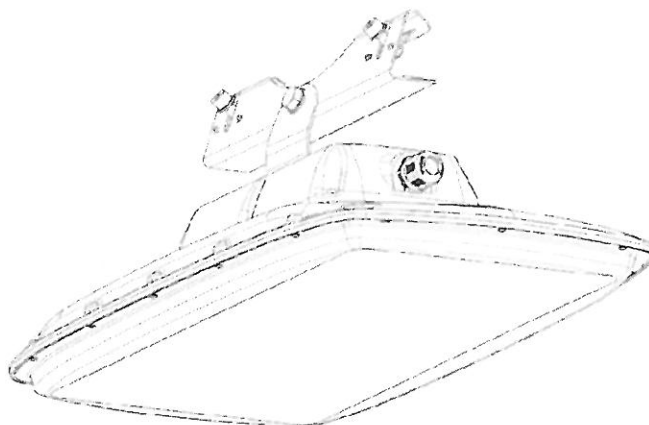


**CE**

**IP66**



**CLASS I**



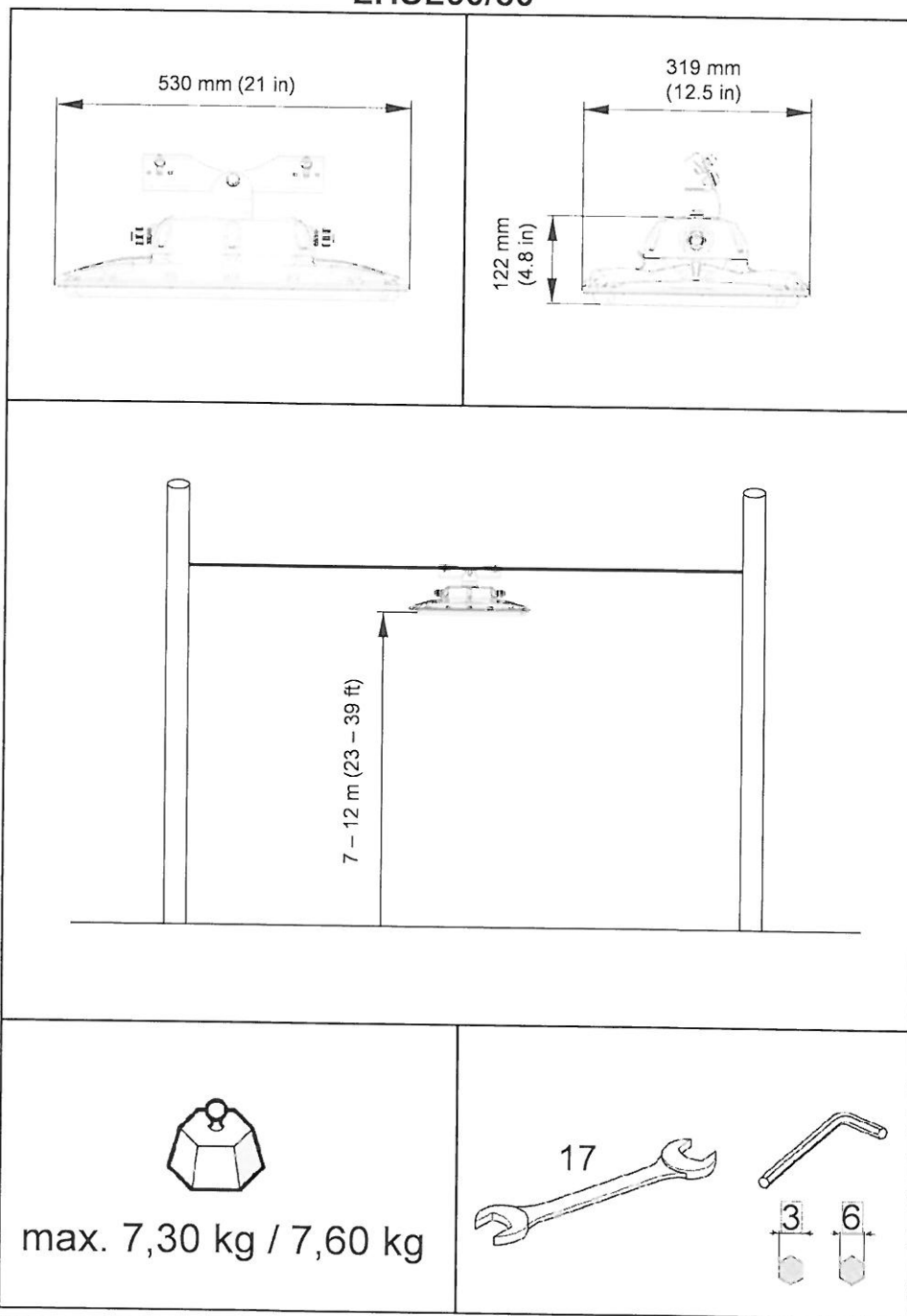
Keep for future reference!

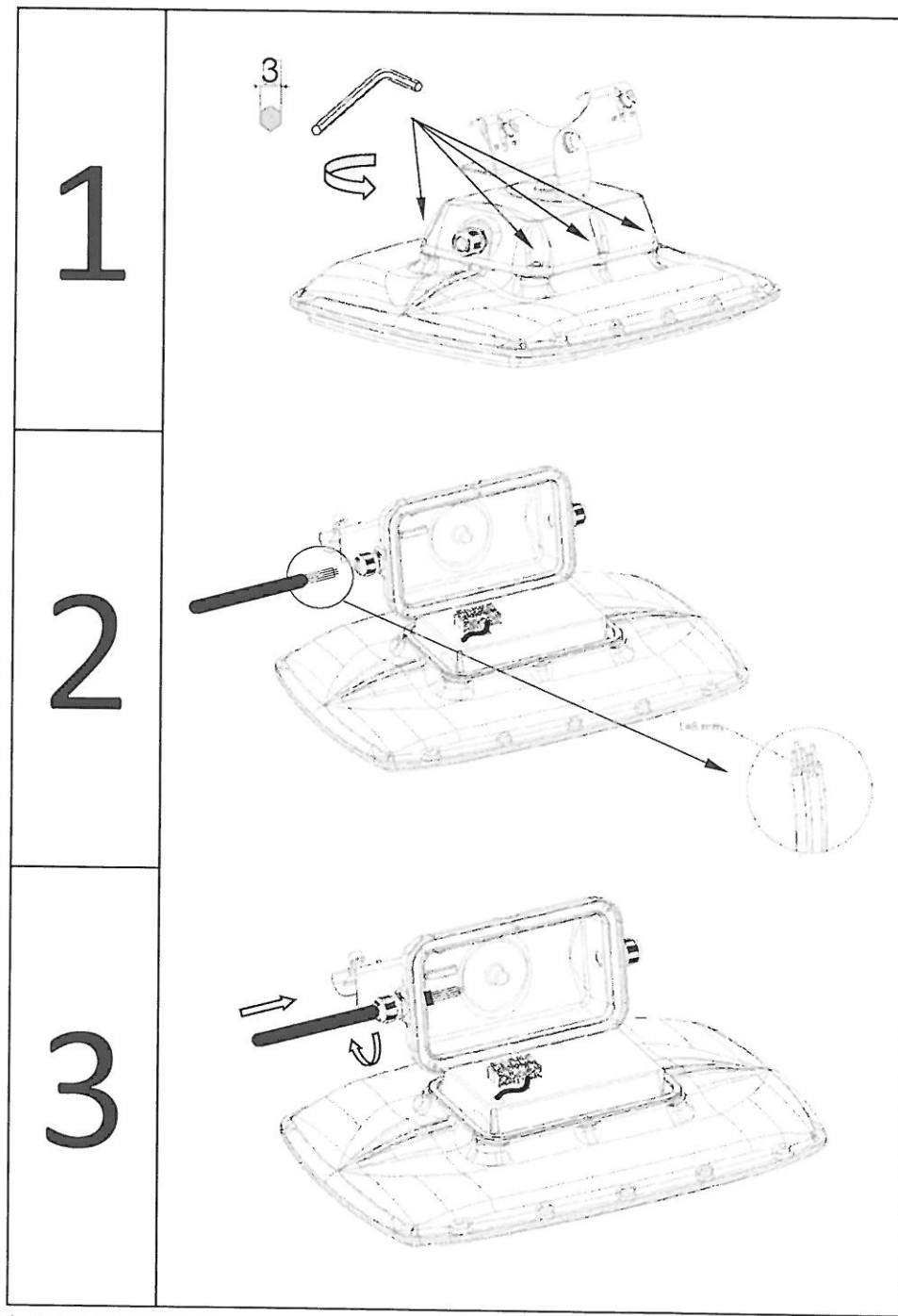
Bitte aufbewahren!

LHSL®

GRAH®  
LED LIGHTING

LHSL60/80





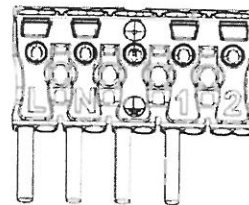
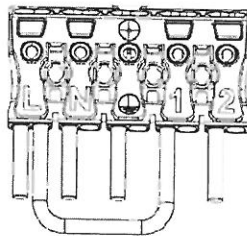
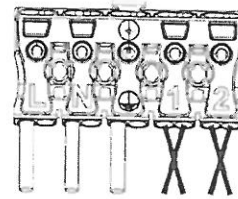
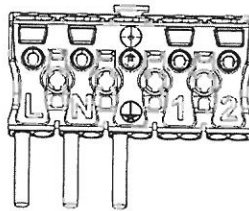


## CLASS I

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved

Consult a qualified electrician to ensure correct branch circuit Conductor (Min 90 C supply conductors)

4

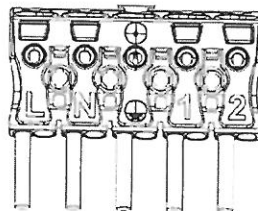


L(2)=0V → =50%

L(2)=230V → =100%

L(1)=0V → =100%

L(1)=230V → =50%



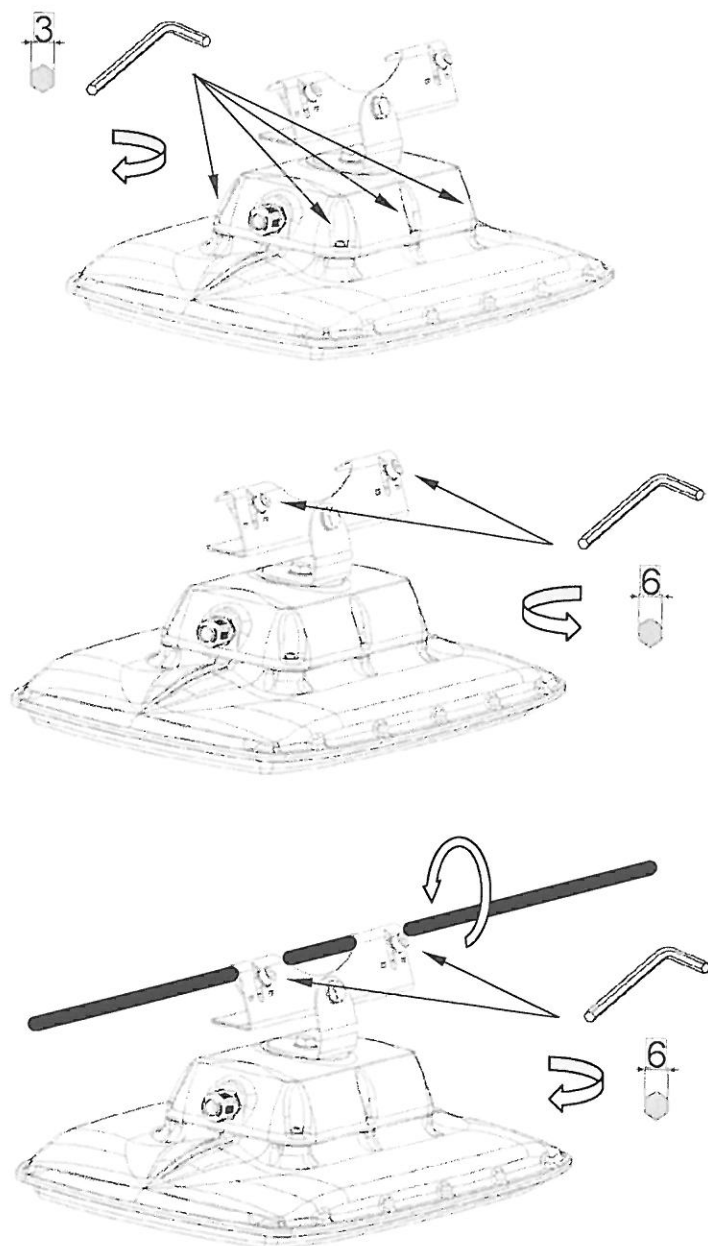
- +

DC 1-10V

=1-100%

Control terminals are separated from live parts by basic insulation. The installer has to secure save Insulation of control parts!

5



**General safety information / Sicherheitshinweis****USA GB CDN**

Installation / maintenance  
only by qualified personnel.

**DE A CH**

Installation / Wartung kann  
durch entsprechend  
qualifizierte Person eingeholt  
werden.

**SLO**

Montažo/vzdrževanje lahko  
opravi le strokovno  
usposobljena oseba.

**F B**

Les opérations d'installation  
et d'entretien doivent être  
effectuées exclusivement  
par des personnes  
qualifiées.

**HR BIH**

Montažu/održavanje mora  
vršiti odgovarajuće  
osposobljena osoba.

**SCG**

Montažu/održavanje može  
da obavi samo stručno  
osposobljena osoba.

**S**

Montering akötsel endaat av  
fackfolk.

**I**

Montaggio / Manutenzione  
solo per mezzo di Personale  
specializzato.

**TR**

Montaj ve Bakım sadece  
yetkili personel tarafından  
yapılmalıdır.

**H**

A szerelés / karbantartást  
csak szakszemélyzet  
végezheti.

**N**

Monteren kun av  
fagpersonell.

**NL**

Montage / service alleen  
door vakkundig personeel.

**R**

Монтаж / обслуживание  
только специалистами.

**P**

Montagem/Manutenção  
efectuada unicamente por  
pessoal técnico  
especializado.

**GR**

Τοποθέτηση / Συντήρηση  
μόνο από ηλεκτρολόγο.

**SK CZ**

Montáž a údržba může být  
prováděna výhradně  
odbornou pracovní silou.

**POL**

Montaż / konserwacja tylko  
przez fachowy personal.

**E**

El montaje y mantenimiento  
lo efectuaran únicamente los  
técnicos especializados.

**Modification and opening of the device is not allowed!**  
**Eingriffe und öffnen des Gerätes verboten!**

**GRAH Lighting**

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