# Optical Lamp K 1000863

## Instruction sheet

09/15 SP/ALF

## 1. Safety instructions

- Do not operate the lamp with a voltage higher than 12 V.
- Do not subject the light source to mechanical shocks or vibrations.

Caution! Lamps become hot when operated for long periods! There is a risk of burning!
- Do not touch a hot lamp.
- After a long period of operation, allow the lamp to cool for at least 20 minutes.

The light becomes very intense.
- Do not look directly into the lamp.
- The grease from your hands will smudge the lamp and considerably reduce its operating life.
- Do not touch halogen lamp bulbs with your fingers, for example when changing a bulb. Instead use a cloth or a similar form of protection.

## 2. Description

The optical lamp K is used for experiments with the optical bench K (Kröncke optical system) in combination with the optical rider K.

The halogen lamp is mounted in a cylindrical housing on a reflector (100x100 mm²). It can be positioned with the coil either horizontal or vertical.

### 2.1 Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halogen lamp 12 V, 20 W</td>
<td>1003533</td>
</tr>
</tbody>
</table>

## 3. Technical data

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halogen lamp</td>
<td>12 V, 20 W</td>
</tr>
<tr>
<td>Connectors</td>
<td>4 mm safety sockets</td>
</tr>
<tr>
<td>Overall dimensions</td>
<td>60x100x100 mm approx.</td>
</tr>
<tr>
<td>Mass</td>
<td>130 g approx.</td>
</tr>
</tbody>
</table>
4. Operation

**Recommended additional equipment:**
For supplying the voltage for the halogen lamp:
Transformer 12 V, 25 VA @230 V 1000866  
or  
Transformer 12 V, 25 VA @115 V 1000865
For mounting the halogen light source:
Optical rider K 1000862
For carrying out the experiments:
Optical bench K, 500 mm 1009926  
or  
Optical bench K, 1000 mm 1009696
Optical components from the Kröncke optical system

- Set up the experiment.
- Mount the halogen light source on the optical rider K in the vertical or horizontal position according to preference, and connect it to the transformer.
- Carry out the experiment.

5. Changing the bulb

- Disconnect the voltage supply from the halogen light source.
- If necessary, allow the halogen light source to cool.
- Loosen the knurled securing screws and remove the protective cap.
- Using a cloth or similar material, take out the halogen bulb replace it with the new one.
- Refit the protective cap and tighten the screws.
- When disposing of a used halogen lamp, comply with local regulations.