

## U40120 Single-beam lamp

## U40121 Magnet holder

### Operating instructions

1/03 ALF



- ① Protective cover for the lamp socket
- ② Knurled screw for adjusting the aperture
- ③ Magnet holder
- ④ Aperture with lens
- ⑤ Handle

The single-beam lamp is used in experiments to demonstrate geometric optics on magnetic boards (U14600).

#### 1. Safety instructions

- Caution: Lamps heat up during extended periods of operation.
- Do not touch the glass bulb of the lamp with your bare hands when changing the bulb, for example. Lamp bulbs are clouded by fat deposits on the skin.

#### 2. Description, technical data

Enclosed in a round metal housing, this lamp has a rotating mount and an adjustable aperture for producing narrow light beams or light cones.

Lamp:	12V, 35W
Power cable:	1.5 m long with a 4-mm plug
Dimensions:	120 mm x 70 mm Ø
Weight:	0.25 kg

#### 2.1 Accessories:

Magnet holder U40121 for mounting the single-beam lamp U40120.  
 Diameter: 65 mm  
 Spare bulb U40122 for the single-beam lamp U40120.

#### 3. Procedure

##### 3.1 Setting a narrow light beam

- Attach the magnet holder to the board.
- Fit the single-beam lamp on the magnet holder.

- Plug the lamp into a power supply unit, for instance, U11735.
- Loosen the knurled screw.
- Enlarge or reduce the aperture to achieve the required beam thickness.
- Tighten the knurled screw firmly.

##### 3.2 Setting a light cone

- Attach the magnet holder to the board.
- Fit the single-beam lamp on the magnet holder.
- Plug the lamp into a power supply unit, for instance, U11735.
- Loosen the knurled screw.
- Enlarge or reduce the aperture to obtain the required light cone.
- Tighten the knurled screw firmly.

##### 3.3 Bulb replacement

- Loosen the screws (A).
- Remove the protective cover (B).
- Change the bulb.
- Do not touch the bulb with your bare fingers when changing it.
- Install the protective cover (B) over the lamp and tighten the screws (A).

