

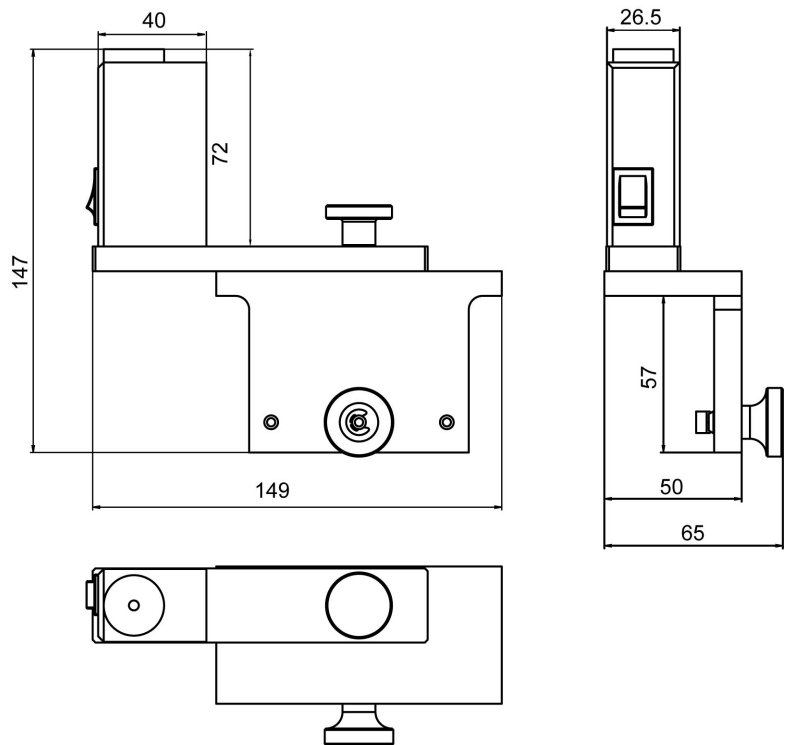
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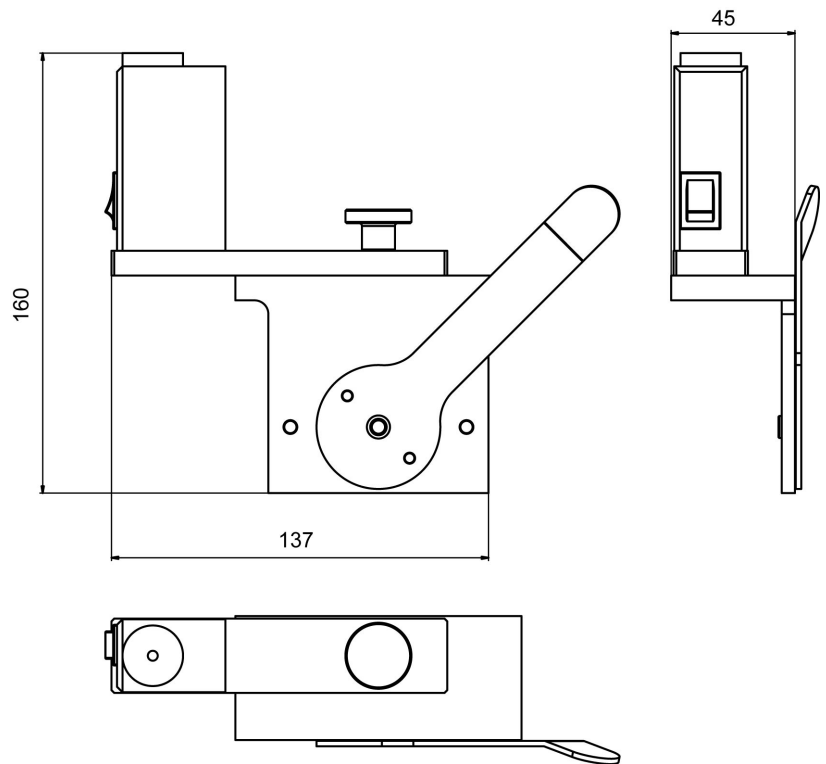
- Red-light laser, Laser class 2
- Sturdy aluminum housing
- Battery-operated
- Suitable for safety sensor MLD

### Dimensioned drawings

Laser Alignment Aid LA-78M



Laser Alignment Aid LA-78M-UDC



### Accessories:

- 2x1.5V AAA batteries (built-in)

We reserve the right to make changes

### Specifications

#### Electrical data

Voltage supply	2 commercially available AAA batteries 2x1.5V replaceable
Ready to operate	approx. 8 hours in permanent operation
Switching on/off	by pressing the flip switch
Visual range	approx. 50m depending on ambient light
Light wavelength	650 ... 670nm (visible red light)
Laser class	2 in accordance with IEC 60825-1:2014 / EN 60825-1:2014+A11:2021

#### Mechanical data

Housing	aluminium
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#### Environmental data

Ambient temp. (operation/storage)	-20°C ... +55°C/-30°C ... +70°C
Protection class	IP 45

### Remarks

#### Intended use

The LA-78M and LA-78M-UDC Laser Alignment Aids are battery-operated red light lasers for quick and easy alignment of Leuze electronic MLD safety sensors, particularly with multiple side guarding via Deflecting Mirrors or with large operating ranges.

- The LA-78M Laser Alignment Aid is in-tended for direct mounting on the MLD safety sensor.
- The LA-78M-UDC Laser Alignment Aid is designed for the MLD safety sensor, mounted in the UDC device column.

#### Operate in accordance with intended use!

- ⚠ The product may only be put into operation by competent persons.
- ⚠ Only use the product in accordance with the intended use.

#### Battery change

To change the AAA cells, the two screws M2.5 on the bottom and the cover have to be removed. Change the AAA cells acc. to the figure, mount the cover and fasten the screws.

### Order guide

	Designation	Part No.
Laser Alignment Aid for MLD safety sensor	LA-78M	520023
Laser Alignment Aid for MLD safety sensor in UDC device column	LA-78M-UDC	520024
Mounting bracket for Laser Alignment Aid for MLD safety sensor	BT-LA-78M	520021
Mounting bracket for Laser Alignment Aid for MLD safety sensor in UDC device column	BT-LA-78M-UDC	520022

### Laser safety notices

#### ⚠ ATTENTION, LASER RADIATION – CLASS 2 LASER PRODUCT



#### Do not stare into beam

The device satisfies the requirements of IEC 60825-1:2014 / EN 60825-1:2014+A11:2021 safety regulations for a product of **laser class 2** and complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

- ⚡ Never look directly into the laser beam or in the direction of reflected laser beams!  
If you look into the beam path over a longer time period, there is a risk of injury to the retina.
- ⚡ Do not point the laser beam of the device at persons!
- ⚡ Interrupt the laser beam using a non-transparent, non-reflective object if the laser beam is accidentally directed towards a person.
- ⚡ When mounting and aligning the device, avoid reflections of the laser beam off reflective surfaces!
- ⚡ **CAUTION!** Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure.
- ⚡ Observe the applicable statutory and local laser protection regulations.
- ⚡ The device must not be tampered with and must not be changed in any way.  
There are no user-serviceable parts inside the device.
- ⚡ **CAUTION!** Opening the device may result in hazardous radiation exposure!  
Repairs must only be performed by Leuze electronic GmbH + Co. KG.

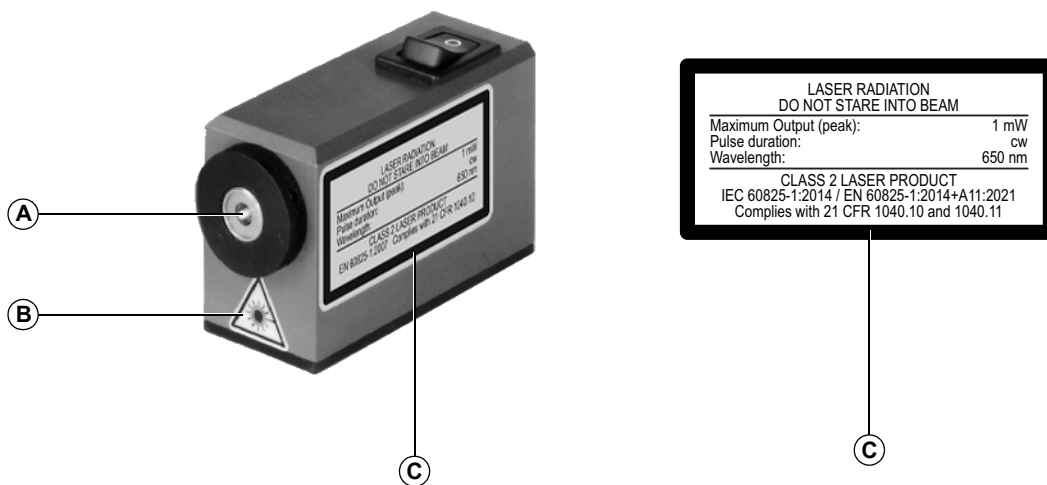
#### NOTE



#### Laser information and warning signs

Laser warning and laser information signs are affixed to the device (see Fig. ①).

①



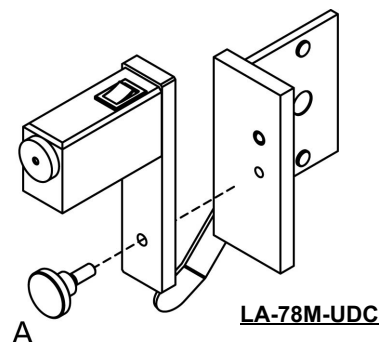
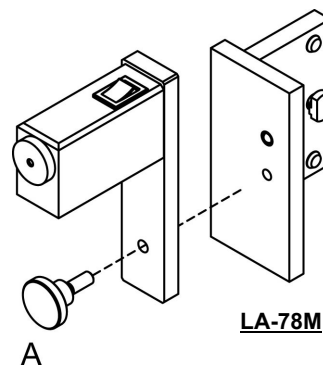
- A Laser exit opening
- B Laser warning sign
- C Laser information sign with laser parameters

### Mounting

#### Step 1: Securing the Laser Alignment Aid to the mounting bracket

- ☞ Set the LA-78M or the LA-78M-UDC Laser Alignment Aid on the mounting bracket.
- ☞ Fasten the Laser Alignment Aid with the knurled screw (A).

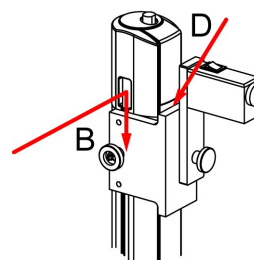
#### Step 1



#### Step 2: Securing the Laser Alignment Aid

- ☞ Set the guide pins of the LA-78M or the LA-78M-UDC Laser Alignment Aid laterally into the guide notch of the MLD safety sensor.
- ☞ Align the Laser Alignment Aid in such a way that the upper edge of the mounting bracket locks flush with the disc edge (D).
- ☞ LA-78M: Fasten the Laser Alignment Aid with the knurled screw (B).
- ☞ LA-78M-UDC: Tilt the Laser Alignment Aid between the sensor and the UDC device column by pulling the lever down (C).

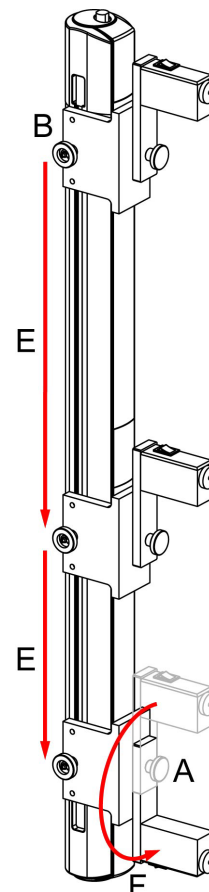
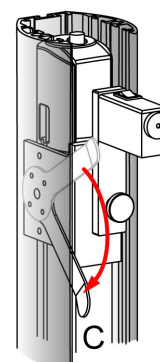
#### Step 2



#### Step 3

#### Step 3: Alignment of the Laser Alignment Aid on the MLD safety sensor

- ☞ Loosen the knurled screw (B) or lift the lever (C) to secure the Laser Alignment Aid on the safety sensor.
- ☞ Move the Laser Alignment Aid along the guide notch (E).
- ☞ Align the Laser Alignment Aid in such a way that the upper edge of the mounting bracket locks flush with the upper, middle or lower disc edge (D).
- ☞ Retighten the knurled screw (B) or push the lever back down (C).



#### Only lower light beam:

- ☞ Loosen the knurled screw (A) to secure the Laser Alignment Aid to the mounting bracket.
- ☞ Turn the Laser Alignment Aid by 180° (F), whereby the mounting bracket remains fastened to the safety sensor.
- ☞ Retighten the knurled screw (A).