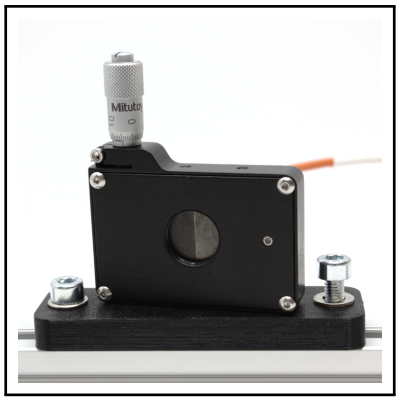
Slit module MGA-VA100

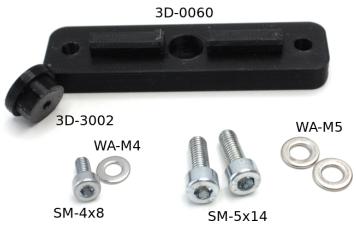


This module is used to mount the adjustable mechanical slit VA100/M from *Thorlabs* on a profile. Included is an adapter for plugging in light guides with SMA connectors. The slit is rotatably mounted around the mounting screw on the baseplate for adjustment purposes.

The optical component (slit VA100/M) is not included and can also be ordered from *Eureca*.

Components and tools required

Amount	Designation	Description
1	3D-3002	Light guide adapter
1	3D-0060	Baseplate 80 mm
2	SM-5x14	Cylinderhead screw M5x14
2	WA-M5	Washer M5
1	SM-4x8	Cylinderhead screw M4x8
1	WA-M4	Washer M4

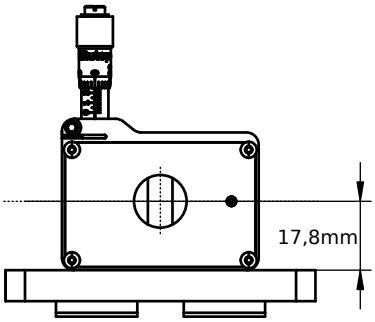


The »3D-*« components are individually adapted to the component and made from PLA filament using a 3D printer. The step files are available on request and via download.

Tools: Allen keys 3 and 4; optional sandpaper/file; solvent-free craft glue.

Optional spacers

If necessary, additional spacers, which can be purchased separately or printed on your own, can be used between the baseplate and the slit. Without the spacer, the center of the gap is 17.8 mm above the top edge of the baseplate. Depending on the spacer used, this distance changes accordingly.



There is a separate document for the spacers, in which the available types are presented and described. In this case, a spacer with a length of 65 mm is required (item number 3D-55xx). The height of the spacer must be selected according to the requirements (xx then stands for the two-digit thickness in mm), for example based on the information in the application description.

A picture of the module with an additional spacer is shown on the right.

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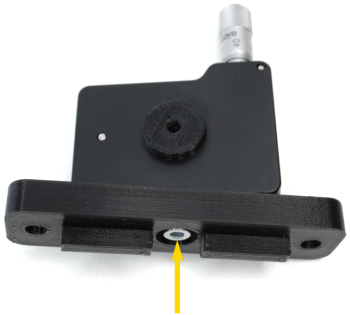
Assembly

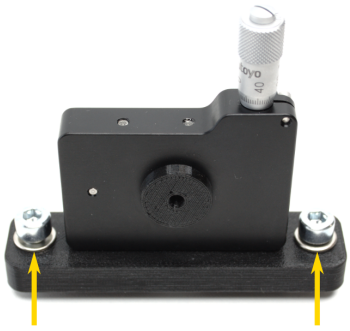
It is recommended to gather all the parts and tools needed and carefully read the instructions before assembly.

First, insert or screw the 3D-3002 fiber optic adapter into the round opening on the back of the slit VA100/M. The best way to do this is to place the slit on a flat surface so that the adapter can be inserted without tilting. This adapter later serves to hold the light guide and should sit straight and firmly in the slit opening without wobbling. Any tolerances during printing can be corrected with some sandpaper or solvent-free craft glue.

Place the slit VA100/M on the smooth side of the baseplate 3D-0060 and screw it from below through the middle fastening hole with the cylinderhead screw SM-4x8 and the washer WA-M4. Tighten the screw just enough so that the slit does not wobble, but can still be turned a bit with slight force for precise alignment on the baseplate.



Insert a SM-5x14 cylinderhead screw with a WA-M5 washer from above through the remaining mounting holes. The module is then later screwed to the profile with these.



Detailed view with attached light guide.

More on our website: https://www.eureca.de/LSC/.

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