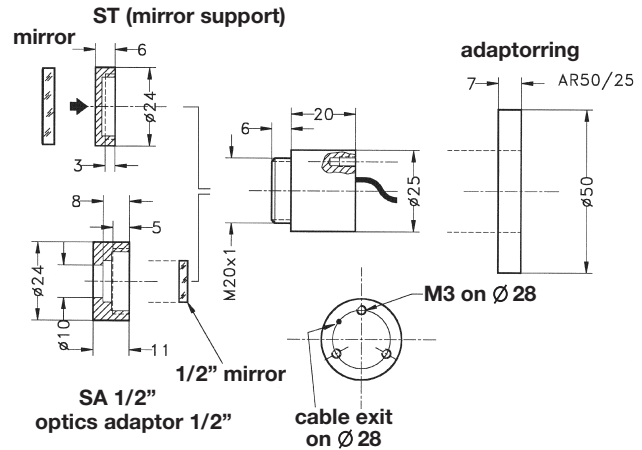




## 5. Piezo Mirror-shifter STr-25



Piezo mirror-shifters are used for ultrafine axial positioning of mirrors and other optical components without the use of heavy stages or other external guiding mechanisms.

Piezo mirror-shifters are internally preloaded resulting in high resonance frequencies, outperforming hereby conventional arrangements like stages etc. with regard to dynamics and stability. Piezo mirror-shifters are mainly used in coherent optics like interferometry or holography eg. phase shift arrangements for measuring surface topographies with a resolution in the submicron range.

Mounting of piezo mirror-shifters is done by

- using an adaptorring for fitting to mirror mounts
- using the rear side tapped holes
- clamping at the circumference.

For attaching mirrors to the shifter, mirror supports or optic adaptors are used.

The mirror support ST is a flat screw-on cap where the mirrors are glued on.

The optic adaptors SA are especially for easy mounting and changing of 1/2 and 1 mirrors.

The mirror-shifters are driven by standard amplifiers described in the corresponding data sheet. In applications where not the full travel of the shifter is used, it is reasonable to use power supplies with lower output voltage. Usually such electronics show higher output currents, which results in a wider frequency range of the shifters operation.

Technical data	max. operating voltage V	max. stroke µm	capacitance nF	resonance frequency kHz
STr-25/150/6	-30/+150	6	2500	15

Option: inverse polarity

Max. weight of optics, when mounted horizontally:  
20 g

Electrical

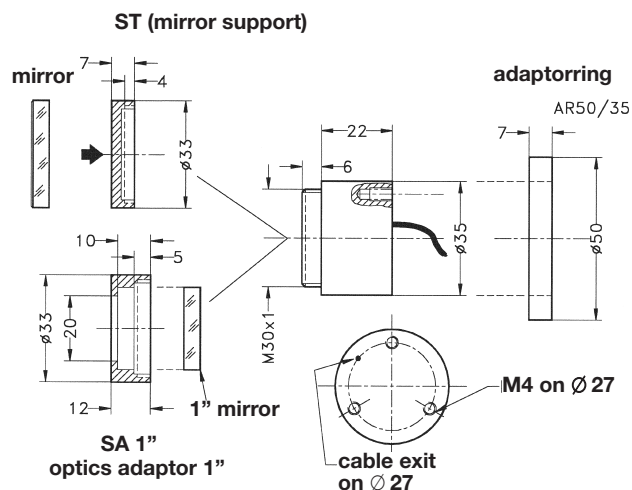
connection: 1 m coaxial cable with BNC-connector  
or LEMOSA (see catalog "amplifiers")

**The mirror shifter is delivered incl. 1 mirror support ST.**

Accessories: mirror support ST25 (for glueing on the mirror)  
optic adaptor SA 1/2 for inserting 1/2 optics  
adaptorring for mounting the shifters to mirror mounts AR 25/50  
other sizes of adaptor rings  
on request



## Piezo Mirror-shifter STr-35



Technical data	max. operating voltage V	max. stroke μm	capacitance nF	resonance frequency kHz
STr-35/150/6	-30/+150	6	2800	10

**The mirror shifter is delivered incl. 1 mirror support ST.**

Max. weight of optics, when mounted horizontally: 40 g

Electrical connection:

1 m coax cable with BNC-connector or LEMOSA (see catalog "amplifiers")

Accessories: mirror support ST 35  
optics adaptor SA 1  
adaptor ring AR 35/50  
(other dimensions on request)