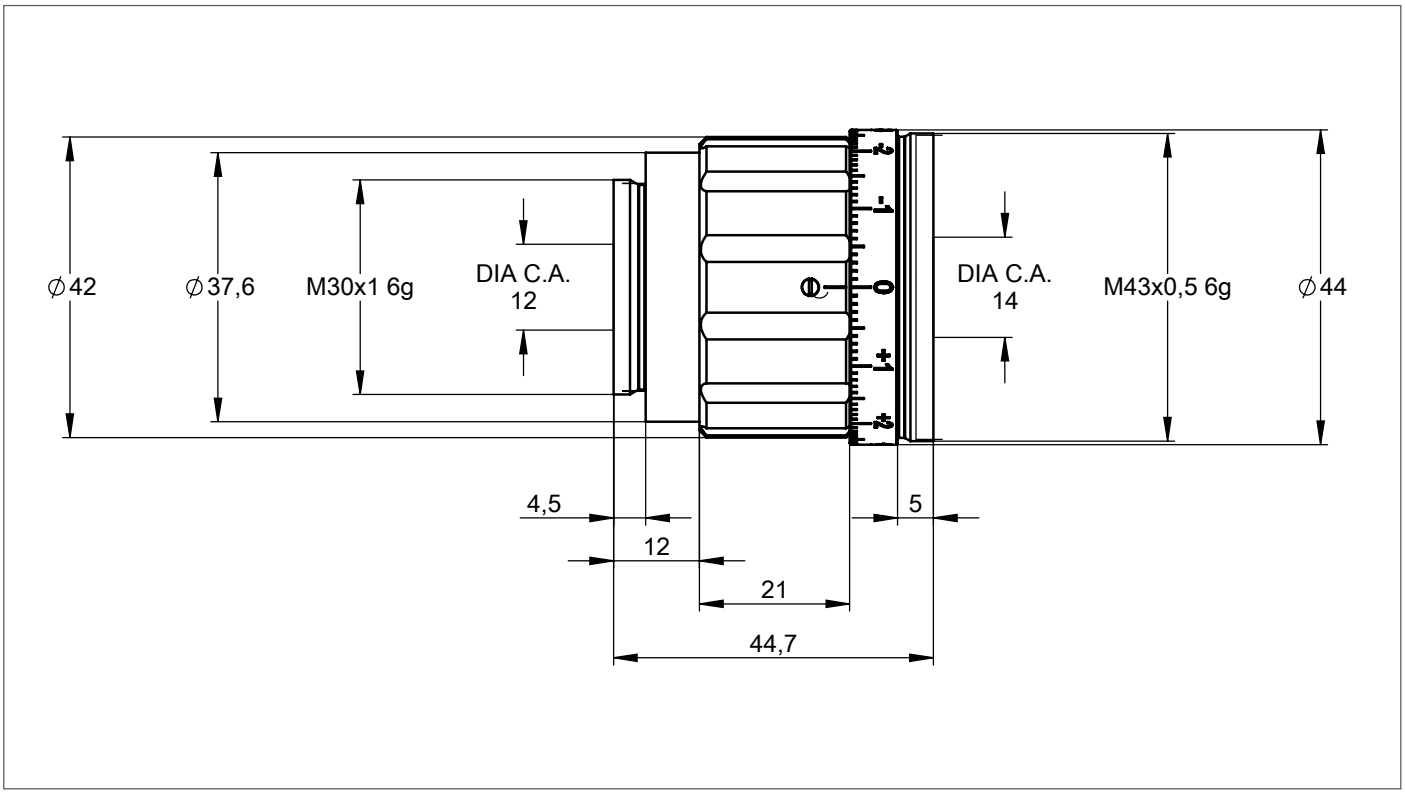
# DATA SHEET

## S6EXK0010-574

BEAMEXPANDER
MAGNIFICATION 1.0
FOR 343 - 355 nm
FUSED SILICA



### OUTLINE DRAWING




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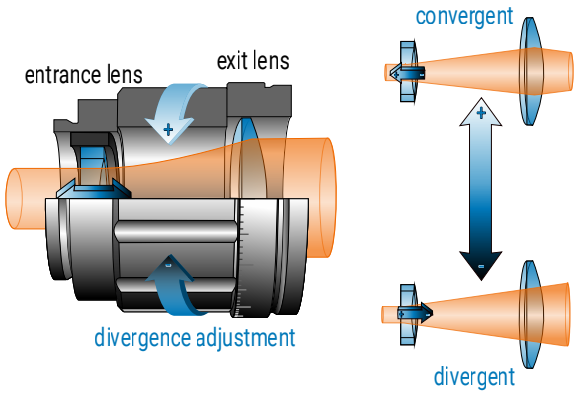
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# DATA SHEET

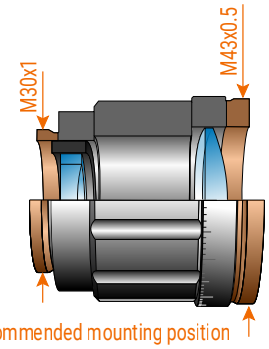
## SPECIFICATIONS

| | |
|---|---|
| article number | S6EXK0010-574 |
| design wavelength [nm] | 355 |
| magnification factor | 1.0 |
| divergence adjustable | yes |
| optical principle | Galilei<br>(no internal focus) |
| pointing stability [mrad] | < 1 |
| clear input aperture [mm] | 12.0 |
| clear output aperture [mm] | 14.0 |
| recommended beam-Ø [mm][1)] | 10.0 |
| total number of lenses | 2 |
| total transmission [%] | > 98 |
| lens material | fused silica |
| LIDT (coating) [J/cm²] | 1.0 J/cm² per 1ns pulse at 50Hz |
| SP and USP usable | yes |
| SP and USP usable,<br>reversed usage | yes |
| mounting thread | M30x1 |
| weight [kg] | 0.3 |
| accessory | S6MEC0107 - adapter M30x1 to C-mount |

## DIVERGENCE ADJUSTMENT




## MOUNTING POSITIONS

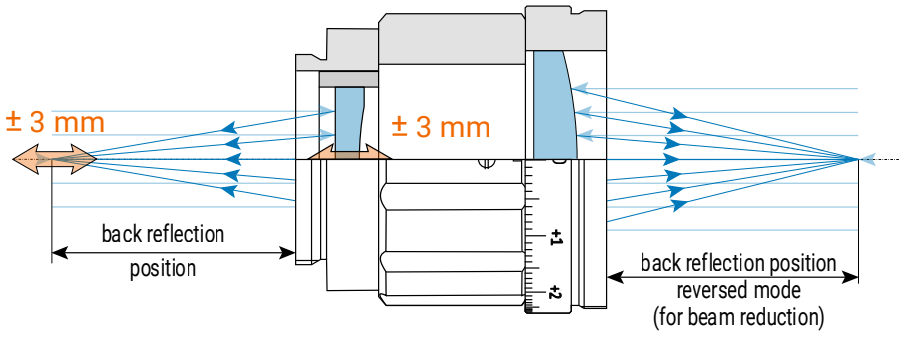



## REMARKS

| |
|---|
| [1)]clipped at 1/e²; wavefront error on axis (PV) < λ/10 (value provided by design) |
| magnification (reversed mode) = 1 / magnification (regular mode) |
| divergence adjustement = 0 → collimated input beam results in collimated output beam |
| maximum divergence adjustment is ± 3 mm |
| RoHS compliant |
| length at divergence setting „0“ stated in the drawing - length extension of max. 3 mm is possible |

## BACK REFLECTION POSITION

| back reflections [mm] |
|---|
| 2.4 |
| |
| back reflections reverse [mm] |
| 51.50 |
| 4.10 |
| 1017.00 |




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