

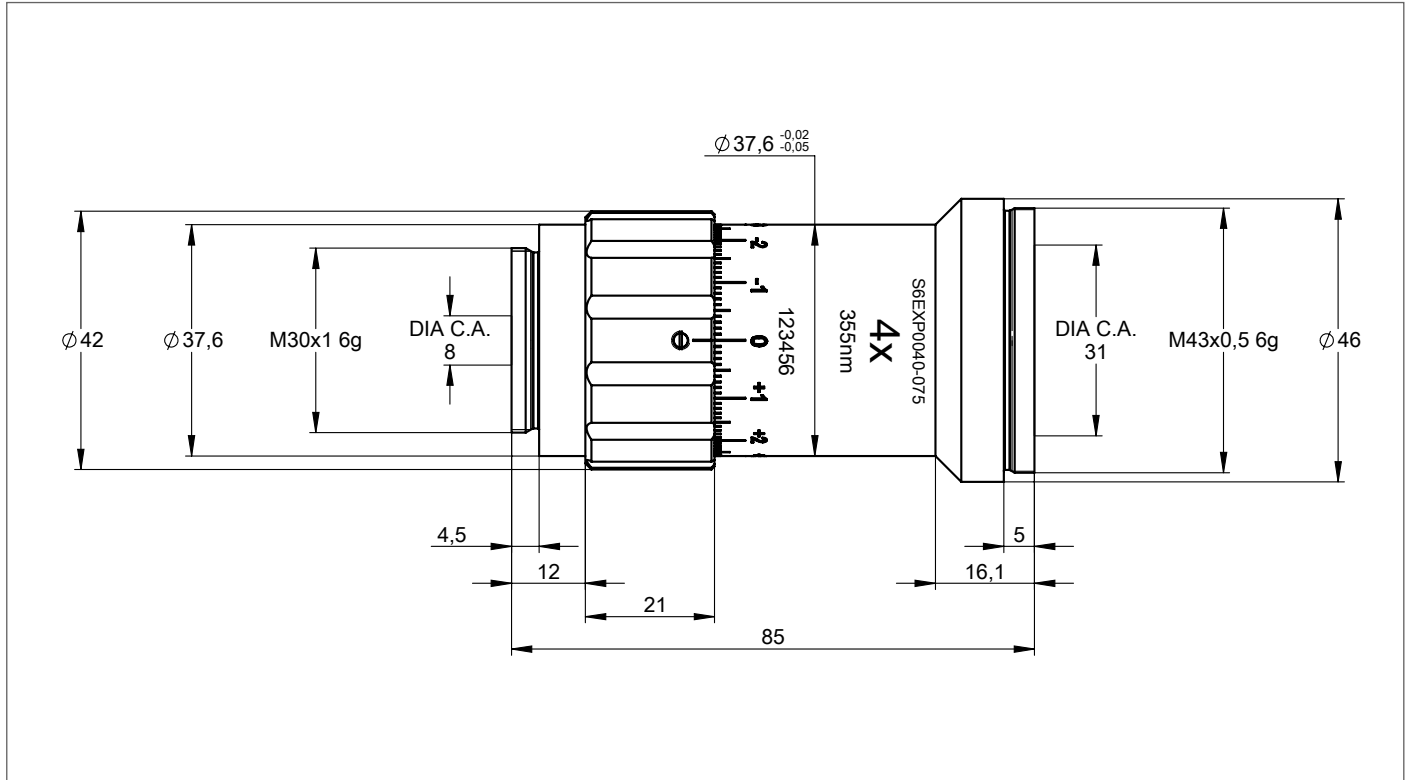
DATA SHEET

S6EXP0040-075

BEAMEXPANDER
MAGNIFICATION 4.0
FOR 355 nm
FUSED SILICA



OUTLINE DRAWING



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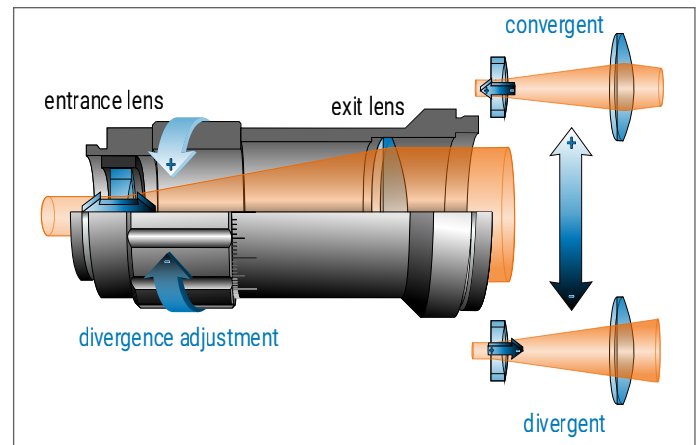
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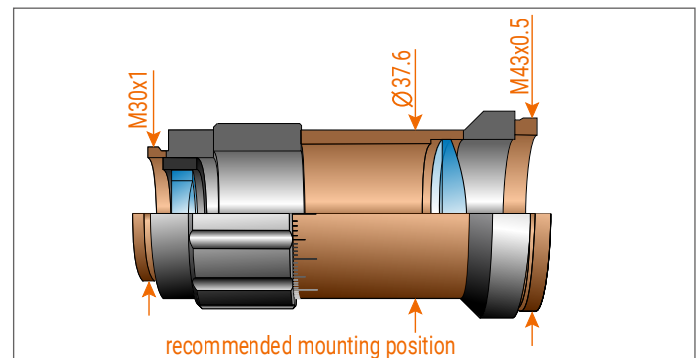
SPECIFICATIONS

article number	S6EXP0040-075
design wavelength [nm]	355
magnification factor	4.0
divergence adjustable	yes
optical principle	Galilei (no internal focus)
pointing stability [mrad]	< 1
clear input aperture [mm]	8.0
clear output aperture [mm]	31.0
recommended beam-Ø [mm] ¹⁾	6.0
total number of lenses	3
total transmission [%]	> 98
lens material	fused silica
LIDT (coating) [J/cm ²]	1.0 J/cm ² per 1ns pulse at 50Hz
SP and USP usable	yes
SP and USP usable, reversed usage	no
mounting thread	M30x1
weight [kg]	0.2
accessory	S6MEC0107 - adapter M30x1 to C-mount

DIVERGENCE ADJUSTMENT



MOUNTING POSITIONS



REMARKS

¹⁾clipped at $1/e^2$; wavefront error on axis (PV) < $\lambda/10$ (value provided by design)

magnification (reversed mode) = $1 / \text{magnification (regular mode)}$

divergence adjustment = 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]	
7.6	
back reflections reverse [mm]	
35.78	
7.12	
0.00	

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