

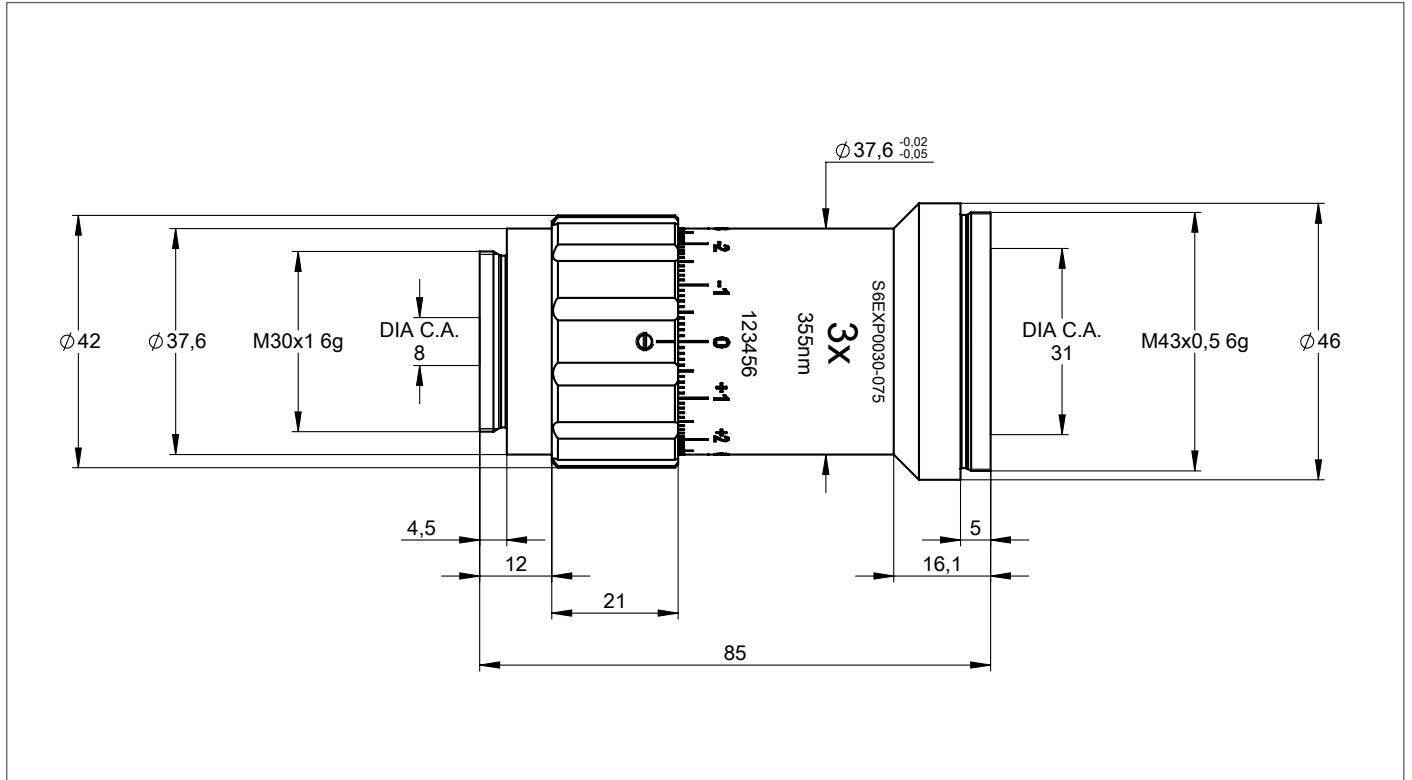
# DATA SHEET

## S6EXPO030-075

BEAMEXPANDER  
MAGNIFICATION 3.0  
FOR 355 nm  
FUSED SILICA



### OUTLINE DRAWING



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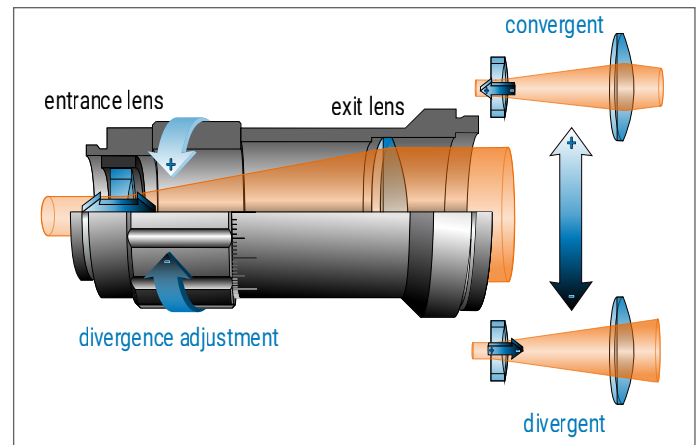
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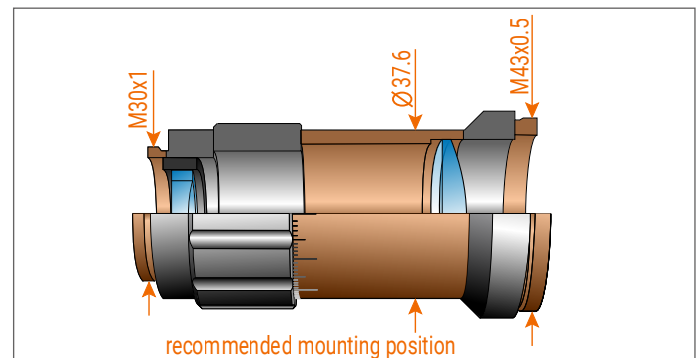
## SPECIFICATIONS

article number	S6EXP0030-075
design wavelength [nm]	355
magnification factor	3.0
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] <sup>1)</sup>	6.0
total number of lenses	3
total transmission [%]	> 98
lens material	fused silica
LIDT (coating) [J/cm <sup>2</sup> ]	1.0 J/cm <sup>2</sup> 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

<sup>1)</sup> 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 $\pm 3$ 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]	
0.0	
back reflections reverse [mm]	
37.94	
7.43	
0.00	

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