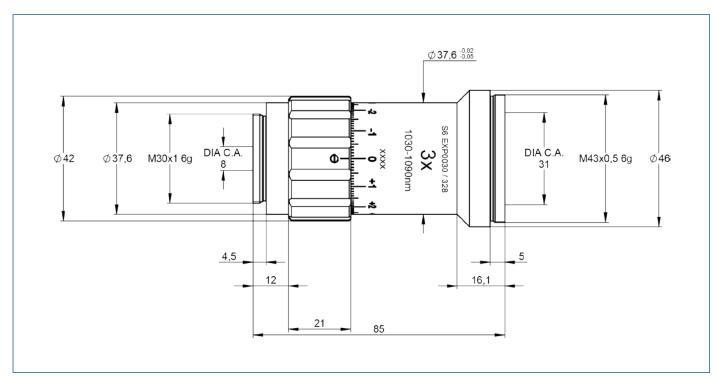
## DATA SHEET



## S6EXP0030/328 Beamexpander

- magnification 3.0x
- for 1030 nm 1090 nm
- fused silica
- low absorption coating





## **DATA SHEET**



specifications	
article number	S6EXP0030/328
design wavelength [nm]	1064
magnification factor	3.0x
divergence adjustable	✓
optical principle	Galilei (no internal focus)
mounting thread	M30x1
pointing stability [mrad]	<1
clear input aperture [mm]	8.0
clear output aperture [mm]	31.0
max. input beam diameter [mm]	6.0
wavefront error <sup>1)</sup>	$<\lambda/10$ for $1/e^2$ diameter <sup>2)</sup> of 6.0
total number of lenses	3
total transmission [%]	98
lens material	fused silica
LIDT (coating) [J/cm²]	5.0 (1ns pulse at 50Hz)
no internal ghosts [√/×]	$\checkmark$
no internal ghosts, reversed usage	x
weight [kg]	0.20
accessory	S6MEC0107 - adapter M30x1 to C-mount

## notes

- 1) Wavefront error peak to valley on axis proved by design
- 2) beam diameter vignetted at 1/e<sup>2</sup>

Data given by design

 $\label{eq:linear_loss} \textit{LIDT} = \textit{Laser Induced Damage Threshold, valid for the coating at design wavelength and gaussian intensity profiled to the last of the$