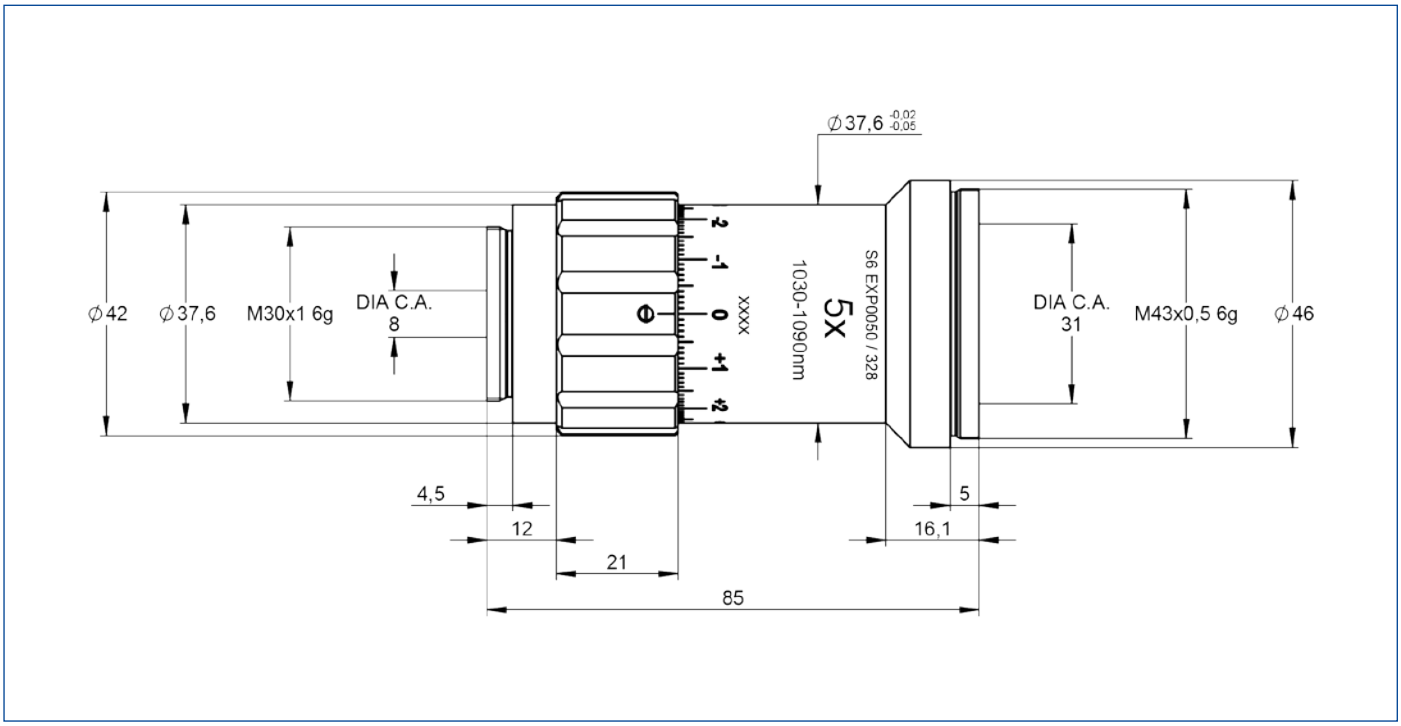
DATA SHEET

新特光电
Sintec Optronics

S6EXP0050/328

Beamexpander

- magnification 5.0 x
- for 1030 nm - 1090 nm
- fused silica
- low absorption coating



outline drawing

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specifications

article number	S6EXP0050/328
design wavelength [nm]	1064
magnification factor	5.0 x
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]	5.5
wavefront error[1)]	<λ/10 for $1/e^2$ diameter[2)] of5.0
total number of lenses	3
total transmission [%]	98
lens material	fused silica
LIDT (coating) [J/cm^2]	5.0 (1ns pulse at 50Hz)
no internal ghosts [✓/×]	✓
no internal ghosts, reversed usage	×
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 $1/e^2$

Data given by design

LIDT = Laser Induced Damage Threshold, valid for the coating at design wavelength and gaussian intensity profil