

新特光电
Sintec Optoelectronics

BEAMEXPANDER
MAGNIFICATION 1.2
FOR 1030 - 1090 nm
FUSED SILICA



Technical drawing of a 1.2X S6EXP0012-328 1030-1090nm laser diode assembly. The drawing shows a side view of the component with various dimensions and specifications.

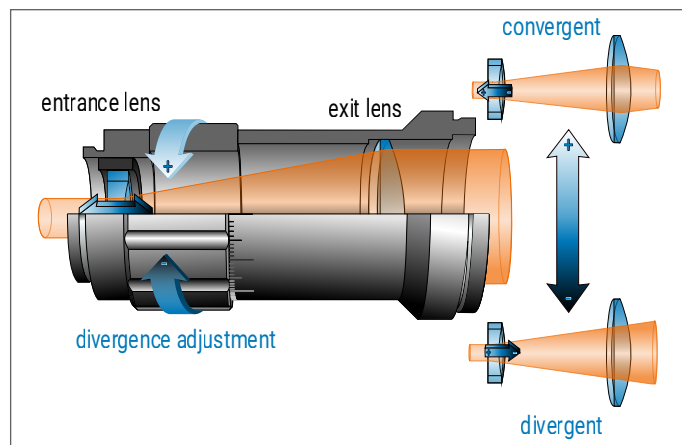
Key dimensions and specifications:

- Overall length: 85 mm
- Overall diameter: $\varnothing 46$ mm
- Mounting base diameter: $\varnothing 42$ mm
- Mounting base hole diameter: $\varnothing 37,6$ mm
- Mounting base hole pitch: M30x1 6g
- Mounting base hole diameter: DIA C.A. 14
- Mounting base hole diameter: 4,5 mm
- Mounting base hole diameter: 12 mm
- Mounting base hole diameter: 21 mm
- Mounting base hole diameter: 16,1 mm
- Mounting base hole diameter: 5 mm
- Mounting base hole diameter: 123456
- Mounting base hole diameter: 2 -1 0 +1 2
- Mounting base hole diameter: 1.2X
- Mounting base hole diameter: S6EXP0012-328
- Mounting base hole diameter: 1030-1090nm
- Mounting base hole diameter: $\varnothing 37,6$ mm
- Mounting base hole diameter: -0,02 / -0,05
- Mounting base hole diameter: DIA C.A. 28
- Mounting base hole pitch: M43x0,5 6g

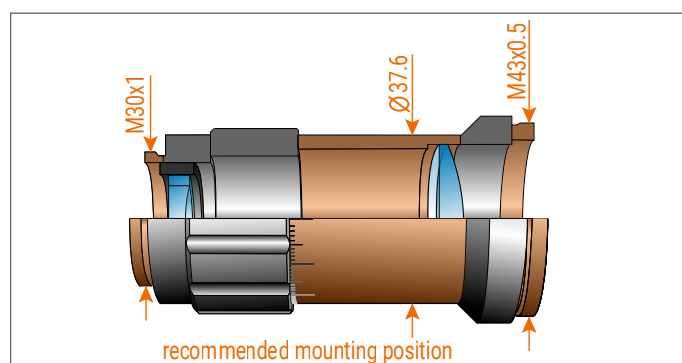
SPECIFICATIONS

article number	S6EXP0012-328
design wavelength [nm]	1064
magnification factor	1.2
divergence adjustable	yes
optical principle	Galilei (no internal focus)
pointing stability [mrad]	< 1
clear input aperture [mm]	14.0
clear output aperture [mm]	28.0
recommended beam-Ø [mm] ¹⁾	6.5
total number of lenses	2
total transmission [%]	> 99
lens material	fused silica
LIDT (coating) [J/cm²]	5.0 J/cm² per 1ns pulse at 50Hz
SP and USP usable	no
SP and USP usable, reversed usage	yes
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 / magnification (regular mode)

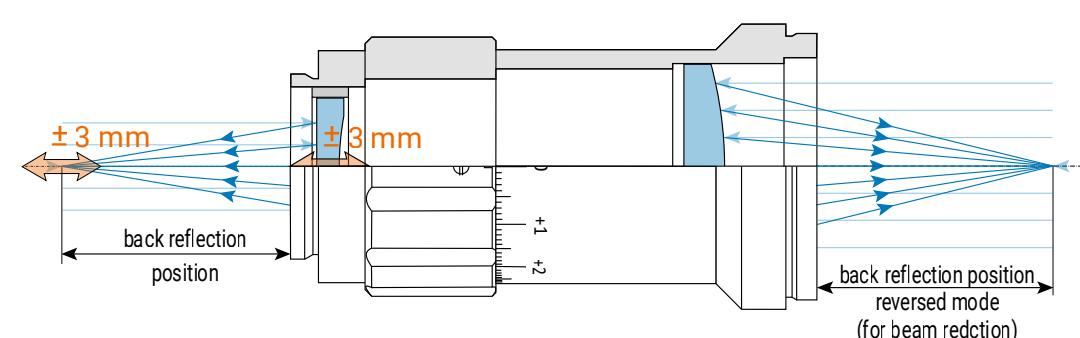
divergence adjustment = 0 → collimated input beam results in collimated output beam

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]	
0.0	
back reflections reverse [mm]	
0.00	
0.00	
0.00	