

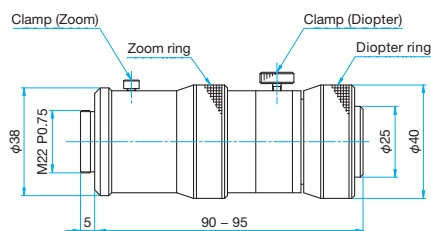
It is capable of 1× to 3× times changing high-power zoom Laser beam expander. Fine adjustment of the collimator is available with diopter correction function. It can be used in an optical system with high precision, such as a laser interferometer and processing by the lens design that takes into account the wavefront aberration.

- The optical design of the beam expander is an air gap configuration that does not use an adhesive to bond the lenses. This allows the beam expander to be used with a high-power laser. By the Galileo type lens configuration, it reduces the number of aberration correction lens, and enables the shorter overall length of the beam expander.
- By turning the diopter ring that is attached to the center of the beam expander, you can make variable beams such as the focused beam, collimated beam, and the divergent beam. It is used when you want to vary the position of the beam waist and if strict collimation adjustment is necessary.



Outline Drawing

(in mm)



### Guide

- ▶ We provide the laser beam expander holders (KLH-BE) for optical-axis adjustment of the laser beam expander.  
[WEB Reference](#) [Catalog Code](#) W4147
- ▶ We can also provide a beam expander for wavelengths not listed on-line or in our catalog, please contact our Sales Division with your request.

### Attention

- ▶ It is not possible to create a collimated light obtained by reducing the beam diameter using in the opposite direction a beam expander. In this case, please use the appropriate optical system by determining the position of the beam waist and divergence angle of the laser beam.

Specifications							Primary material: Aluminum Finish: Black Anodized
Part Number	Variable magnification	Design wavelength [nm]	Input Clear aperture [mm]	Laser Damage Threshold* [J/cm <sup>2</sup> ]	Coating	Material	Weight [kg]
BEZHP-1/3-532	1 - 3	532	φ5	5.0	Antireflection coating	Synthetic fused silica	0.3

\* Laser pulse width 10ns, repetition frequency 20Hz

### Compatible Optic Mounts

KLH-BE-M22H

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Expanders

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