

FEATURES

- Aspherical lens
- Adjustable focus with locking ring
- Accepts various ferrule diameters

APPLICATIONS

- Coupling light into light guides
- Collimating light from light guides

PRODUCT DESCRIPTION

Light guide collimators are used to either couple light from free space into a light guide or collimate light from a light guide to form a collimated (parallel) optical beam. Light guide collimators are key components with numerous applications. For example, a light guide collimator can project light from a light guide into a uniform spot in free space.

High-numerical-aperture aspherical lenses are used for precise collimation and maximum light throughput. The collimator features adjustable focus from ~100mm to infinity. Various light guide ferrule diameters are supported. Customization is available for other ferrule diameters.

The full field of view (FOV) or full divergence angle can be calculated as $FOV = 2 \arctan(D/2f)$, where D is the light guide core diameter and f is the focal length of the lens. Alternatively, the linear field of view on an object placed at a distance L away from the collimator is $D(L/f)$.



Light guide collimator



Collimator with light guide and GCS source

PERFORMANCE SPECIFICATIONS

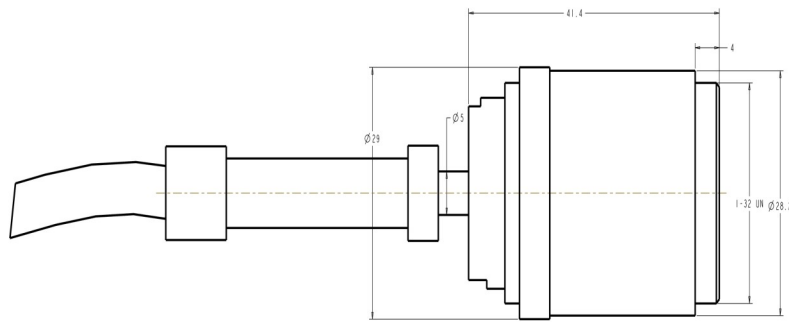
Part Number	Focal Length (mm)	Clear Aperture (mm)	F# / NA	Lens Material	Wavelength Range (nm)	Light Guide Ferrule OD ¹
LGC-019-022-05-V	19	22	0.86/0.5	B270	350~2000	5mm
LGC-019-022-07-V	19	22	0.86/0.5	B270	350~2000	7mm

1. Ferrule length must be at least 15mm.

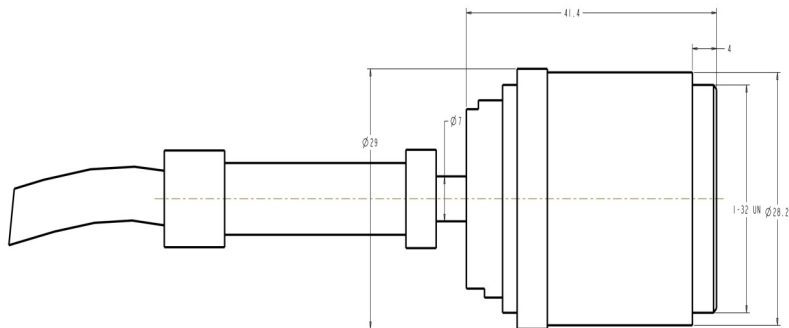
Light Guide Collimators

Part Numbers: LGC-019-022-05-V, LGC-019-022-07-V

INSTALLATION DRAWINGS



LGC-019-022-05-V



LGC-019-022-07-V

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