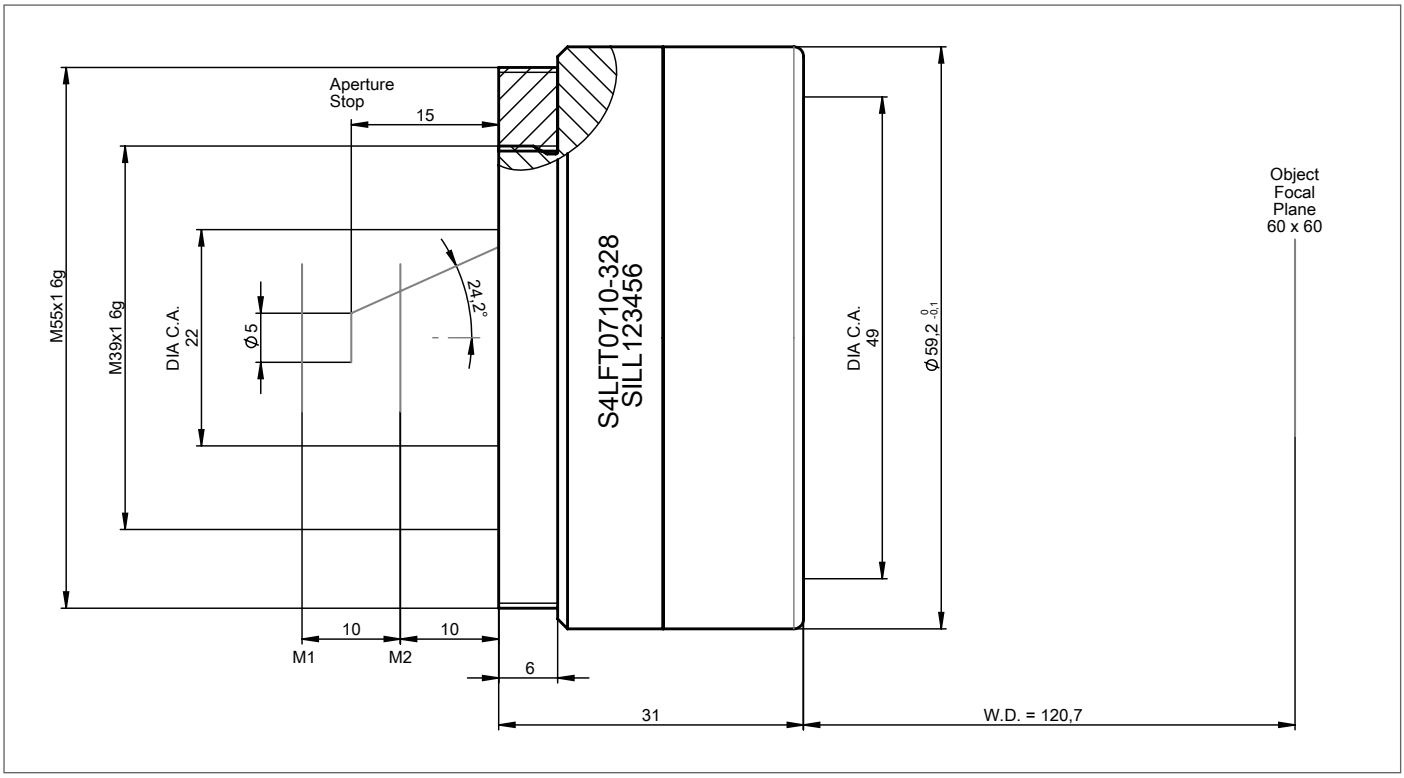
DATA SHEET

S4LFT0710-328

SCAN LENSES
COMPACT - FUSED SILICA
1030 - 1090 nm



OUTLINE DRAWING



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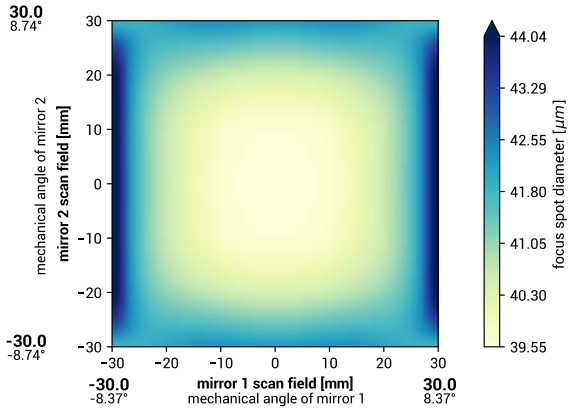
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SPECIFICATIONS

article number	S4LFT0710-328
design wavelength [nm]	1064
effective focal length [mm]	101.40
working distance [mm]	120.70
max. entrance beam-Ø [mm]	5.00
aperture stop distance [mm]	15.00
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	60 x 60 10.0 / 20.0
max. telecentricity error [°]	11.50
total transmission [%]	> 98
absorption [ppm]	48.00
lens material	fused silica
LIDT (coating)	5.0 J/cm² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	0.16
cover glass	S4LPG3105-328
cleanliness	not specified

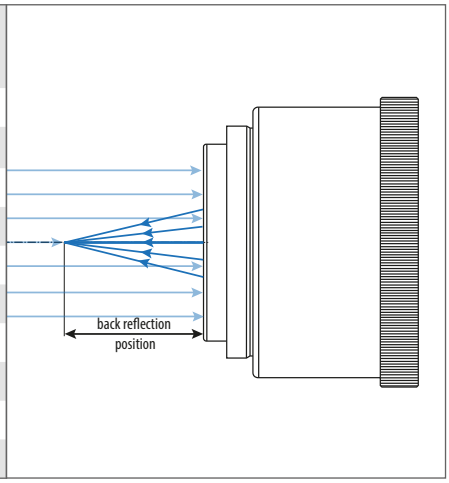
SPOT



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 5.00 mm diameter at $1/e^2$, clipped at 5.00 mm
field size and mirror distances as given above for a two mirror scan system

BACK REFLECTION POSITIONS

back reflections [mm] for 1064
0.50
4.44
23.92
24.26
0.00
0.00
0.00
0.00
0.00
0.00



REMARKS

The stated values are based on a vignetting of less than 1 %.
Effective focal length and working distance have a tolerance of +/- 1.5 %.
Absorption tolerance +/- 25 %. Absorption may increase. Correct cleaning establishes original condition.

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