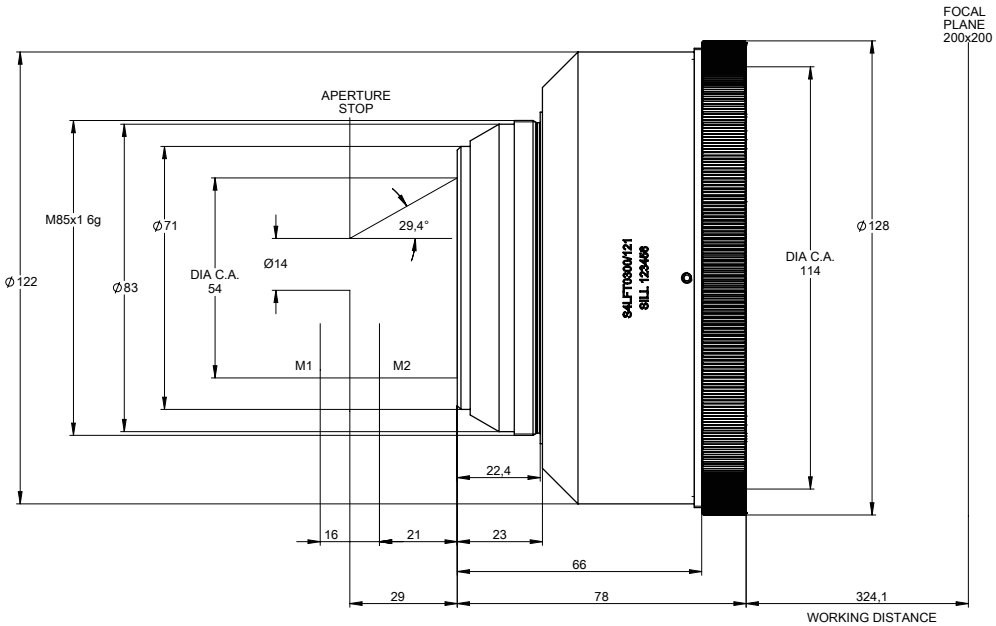
DATA SHEET

S4LFT0300/121

F-Theta
standard - optical glass
532 nm

outline drawing



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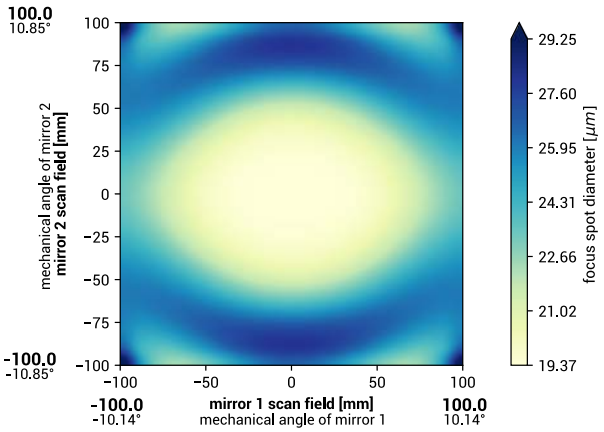
DATA SHEET

specifications

article number	S4LFT0300/121
design wavelength [nm]	532
effective focal length [mm]	276.9
working distance [mm]	324.1
max. entrance beam-Ø [mm]	14.0
aperture stop distance [mm]	29
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	200 x 200 21.0 / 37.0
max. telecentricity error [°]	15.8
total transmission [%]	> 92
absorption [ppm]	not specified
lens material	optical glass
LIDT (coating)	2.5 J/cm² per 1ns pulse at 50Hz
SP and USP usable	no
weight [kg]	1.7
cover glass	S4LPG0300/121
cleanliness	not specified

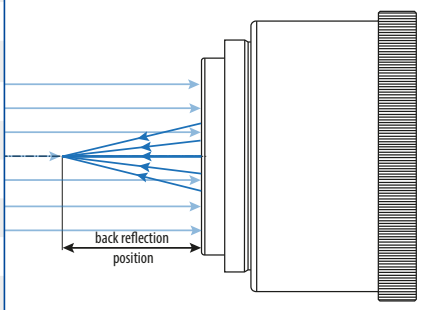
spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 14.0 mm diameter at $1/e^2$, clipped at 14.0 mm
field size and mirror distances as given above for a two mirror scan system

back reflection positions

back reflections [mm] for 532
1.17
13.58
13.76
14.93
68.11
70.40
71.34
721.91
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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