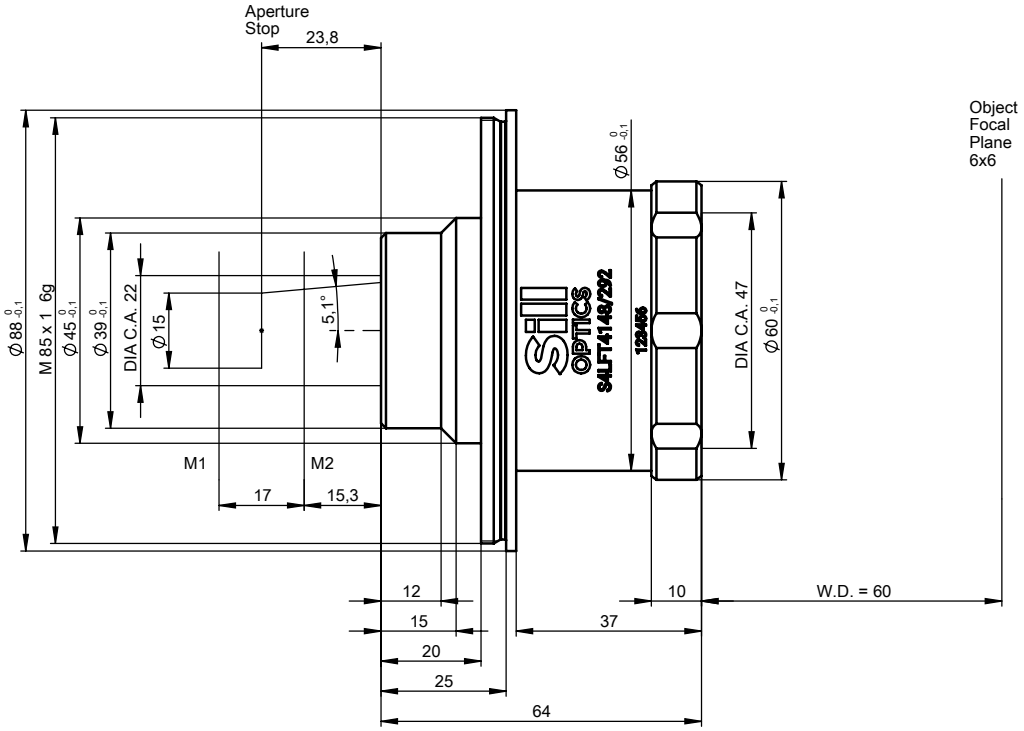
DATA SHEET

S4LFT4148/292

F-Theta
telecentric - fused silica
515 - 545 nm

illustration only

outline drawing



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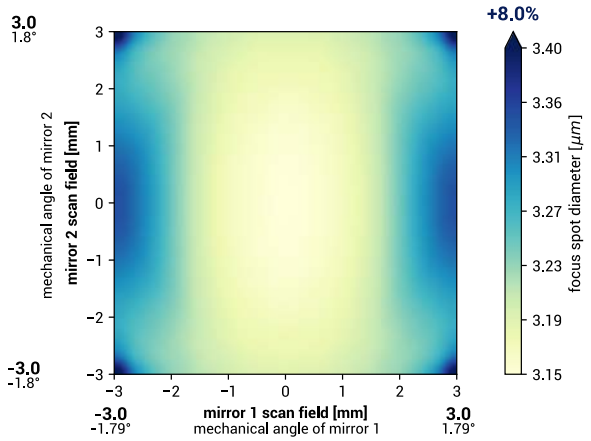
specifications

article number	S4LFT4148/292
design wavelength [nm]	532
effective focal length [mm]	48.0
working distance [mm]	60.0
max. entrance beam-Ø [mm]	15.0
aperture stop distance [mm]	23.8
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	6 x 6 15.3/ 32.3
max. telecentricity error [°]	1.8
total transmission [%]	> 98
absorption [ppm]	not specified
lens material	fused silica
LIDT (coating)	2.5 J/cm² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	not yet weighed
cover glass	S4LPG3105/292
cleanliness	not specified

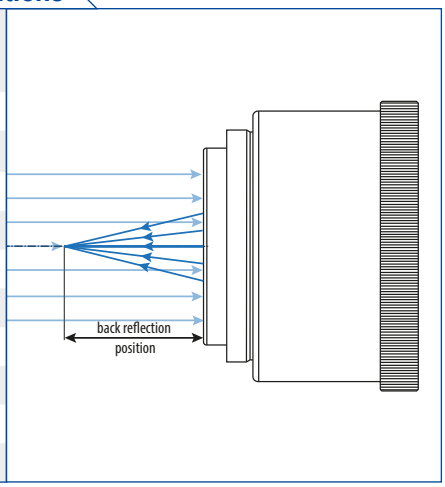
spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 15.0 mm diameter at $1/e^2$, clipped at 15.0 mm
field size and mirror distances as given above for a two mirror scan system

back reflection positions

back reflections [mm] for 532
2.10
5.21
6.37
0.00
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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