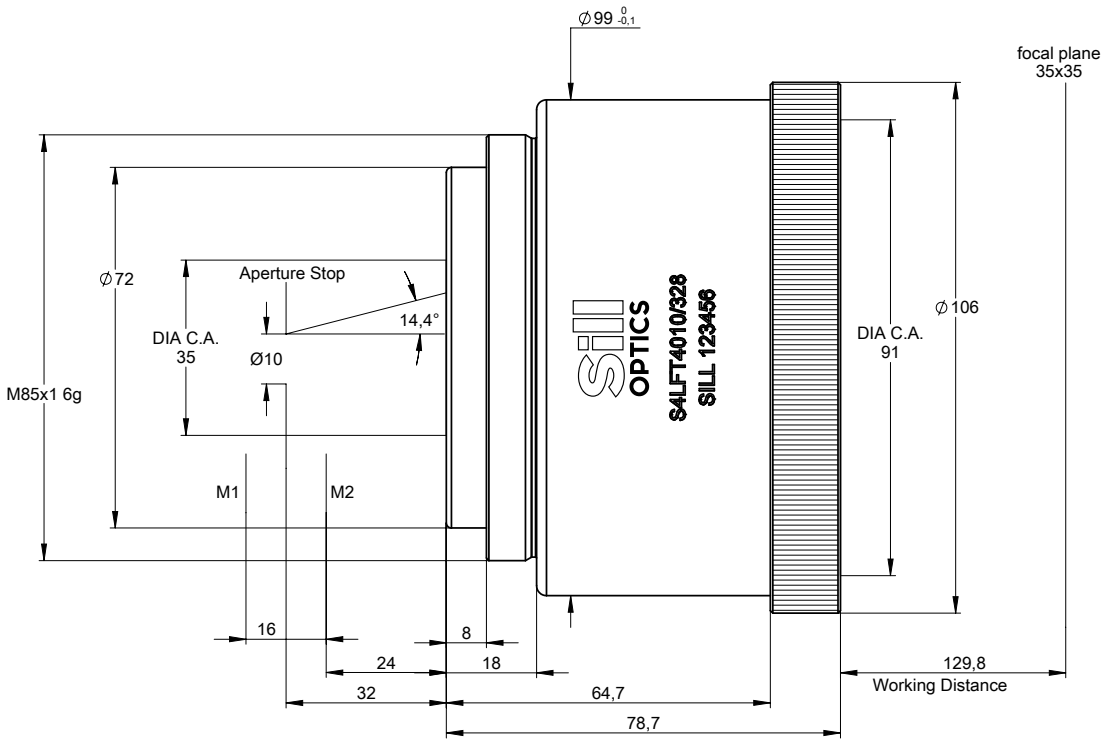
DATA SHEET

S4LFT4010/328

F-Theta
telecentric - fused silica
1030 - 1090 nm

outline drawing



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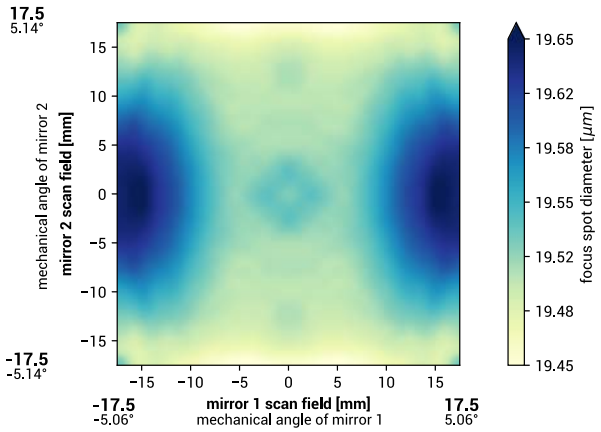
specifications

article number	S4LFT4010/328
design wavelength [nm]	1064
effective focal length [mm]	100.3
working distance [mm]	129.8
max. entrance beam-Ø [mm]	10.0
aperture stop distance [mm]	32.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	35 x 35 24.0 / 40.0
max. telecentricity error [°]	1.3
total transmission [%]	> 98
absorption [ppm]	106
lens material	fused silica
LIDT (coating)	5.0 J/cm² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	1.1
cover glass	S4LPG2250/328
cleanliness	not specified

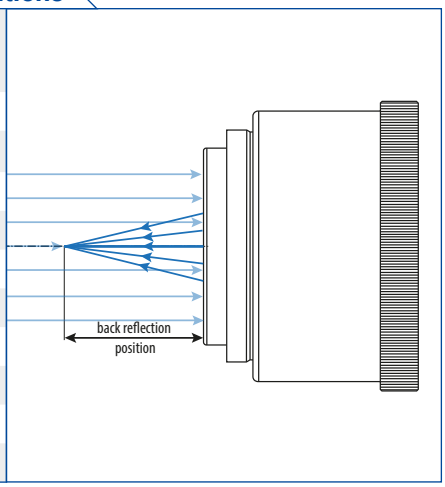
spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 10.0 mm diameter at $1/e^2$, clipped at 10.0 mm
field size and mirror distances as given above for a two mirror scan system

back reflection positions

back reflections [mm] for 1064
0.54
1.98
10.66
12.02
72.63
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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