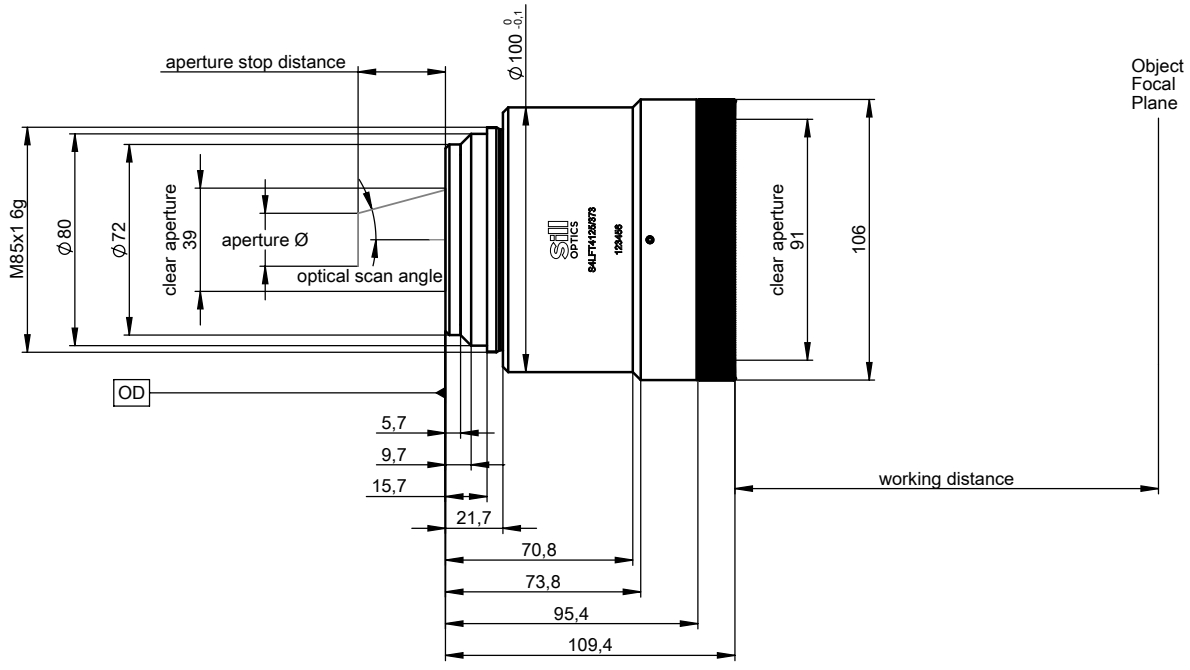
DATA SHEET

S4LFT4125/373

F-Theta
telecentric - fused silica
420 - 480 nm

outline drawing



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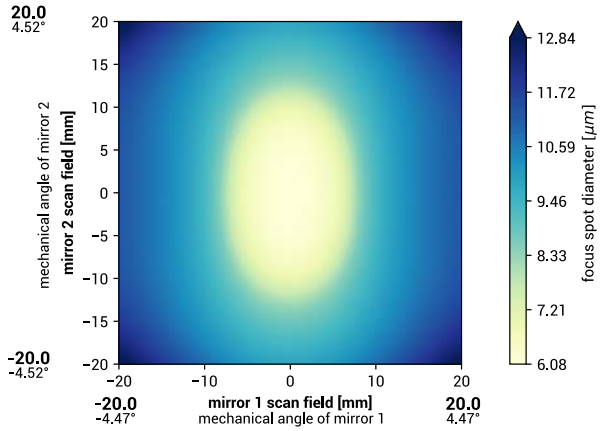
specifications

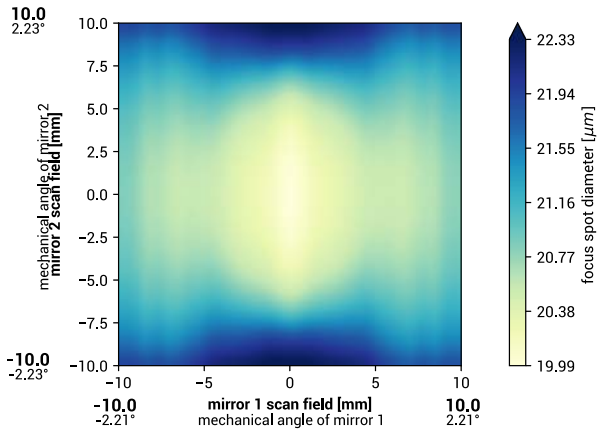
article number	S4LFT4125/373	
design wavelength [nm]	450	
effective focal length [mm]	128.9	
max. entrance beam-Ø [mm]	20.0	30.0
aperture stop distance [mm]	33.0	46.0
working distance [mm]	160.2	160.3
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	45 x 45 20.0 / 46.0	20 x 20 28.0 / 64.0
max. telecentricity error [°]	1.6	0.9
total transmission [%]	> 98	
lens material	fused silica	
LIDT (coating)	not specified	
SP and USP usable	yes	
weight [kg]	1.21	
cover glass	S4LPG2250/373	
absorption [ppm]	not specified	
cleanliness	not specified	

spot for 20.0 mm beam diameter



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 20.0 mm diameter at $1/e^2$, clipped at 20.0 mm field size and mirror distances as given above for a two mirror scan system

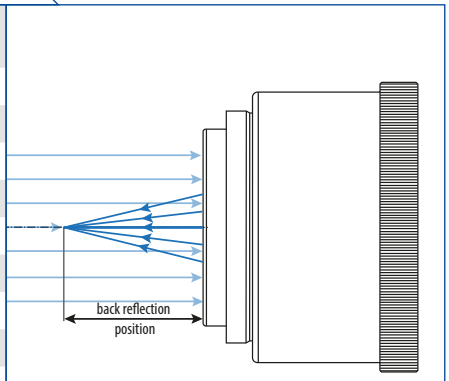
spot for 30.0 mm beam diameter



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 30.0 mm diameter at $1/e^2$, clipped at 30.0 mm field size and mirror distances as given above for a two mirror scan system

back reflection position

back reflections [mm] for 450
0.00
0.00
0.00
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 tolerance of +/- 1.5 %.

Absorption tolerance +/- 25 %. Absorption may increase. Correct cleaning establishes original condition.

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