

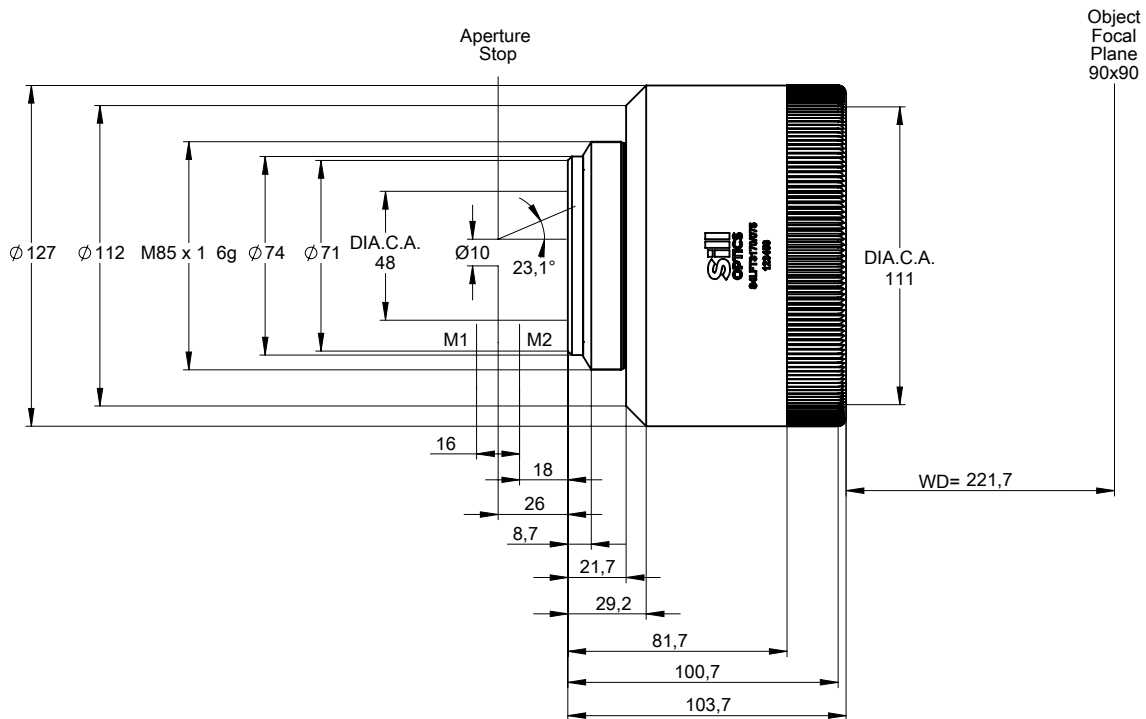
# DATA SHEET

## S4LFT3170/075

F-Theta  
telecentric - fused silica  
355 nm



### outline drawing

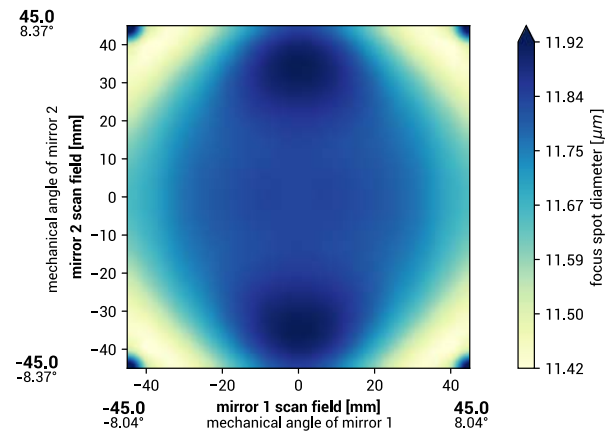


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## specifications

article number	S4LFT3170/075
design wavelength [nm]	355
effective focal length [mm]	163.4
working distance [mm]	221.7
max. entrance beam-Ø [mm]	10.0
aperture stop distance [mm]	26.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	90 x 90 18.0 / 34.0
max. telecentricity error [°]	4.3
total transmission [%]	> 97
absorption [ppm]	not specified
lens material	fused silica
LIDT (coating)	1.0 J/cm <sup>2</sup> per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	1.9
cover glass	S4LPG4160/075
cleanliness	not specified

## spot



spot diameter at 86.5 % level for a Gaussian beam ( $M^2 = 1$ ) with 6.7 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 355	
3.94	
4.46	
230.89	
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 a tolerance of +/- 1.5 %.

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