

# DATA SHEET

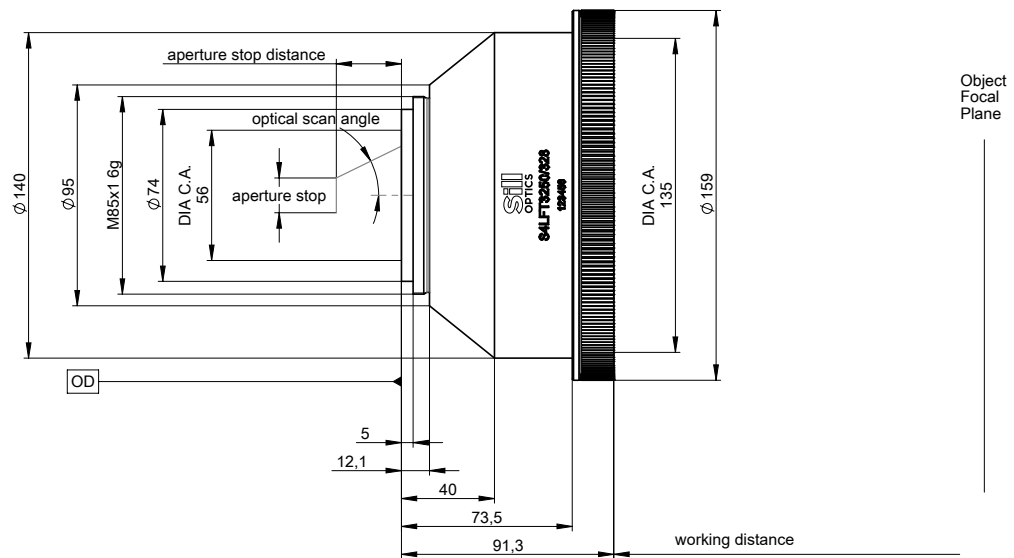
## S4LFT3250/328

F-Theta  
standard - fused silica  
1030 - 1090 nm



illustration only

### outline drawing

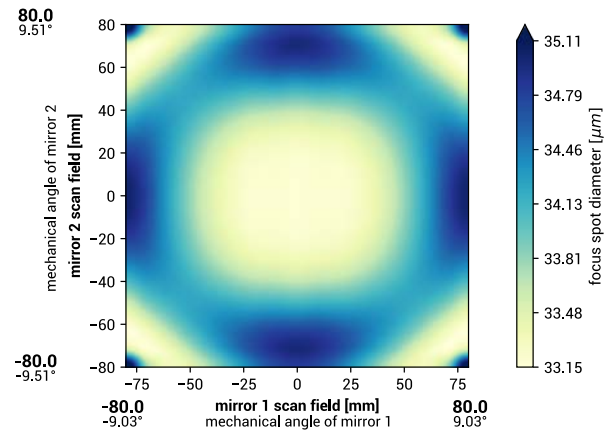


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## specifications

article number	S4LFT3250/328	
design wavelength [nm]	1064	
effective focal length [mm]	255.0	
max. entrance beam-Ø [mm]	15.0	20.0
aperture stop distance [mm]	32.5	46.5
working distance [mm]	321.3	321.4
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	160 x 160	115 x 115
	24.0 / 41.0	34.0 / 59.0
max. telecentricity error [°]	10.7	7.0
total transmission [%]	> 97	
lens material	fused silica	
LIDT (coating)	5.0 J/cm <sup>2</sup> per 1ns pulse at 50Hz	
SP and USP usable	yes	
weight [kg]	1.3	
cover glass	S4LPG2175/328	
absorption [ppm]	111	
cleanliness	not specified	

## spot for 15.0 mm beam diameter

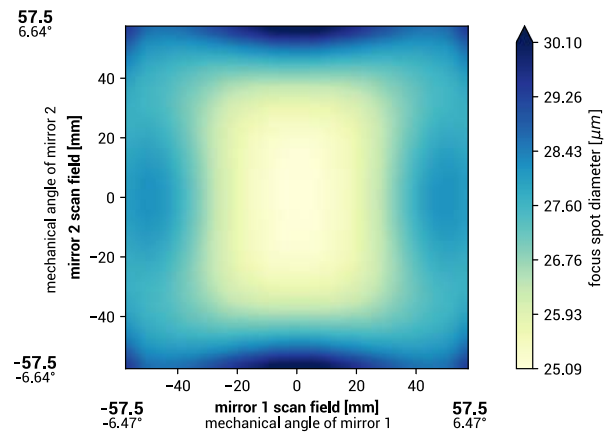


spot diameter at 86.5 % level for a Gaussian beam ( $M^2 = 1$ ) with 15.0 mm diameter at  $1/e^2$ , clipped at 15.0 mm field size and mirror distances as given above for a two mirror scan system

## back reflection position

back reflections [mm] for 1064	
12.47	
48.02	
48.87	
135.23	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	

## 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

## 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.