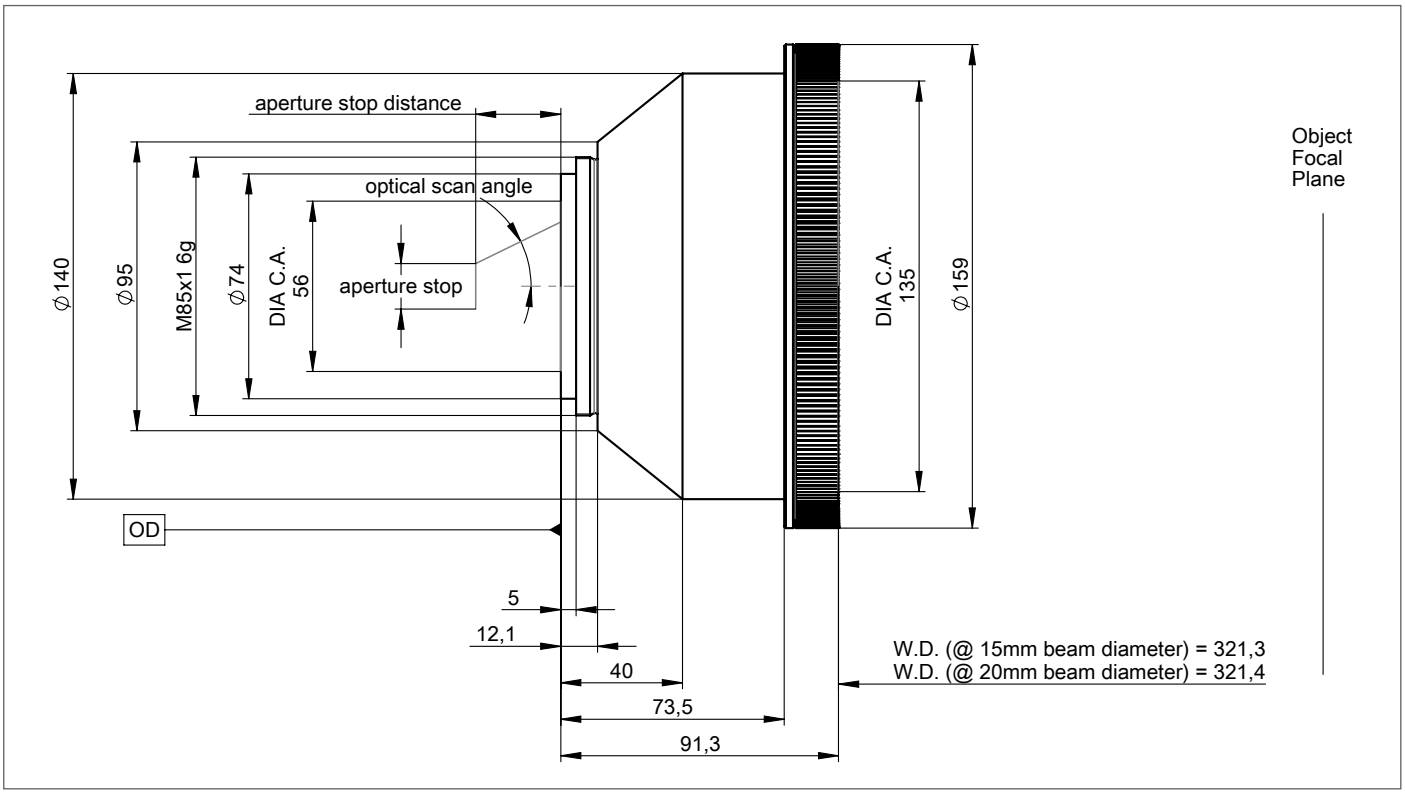
DATA SHEET

S4LFT3250-328

F-THETA
STANDARD - FUSED SILICA
1030 - 1090 nm

ILLUSTRATION ONLY

OUTLINE DRAWING



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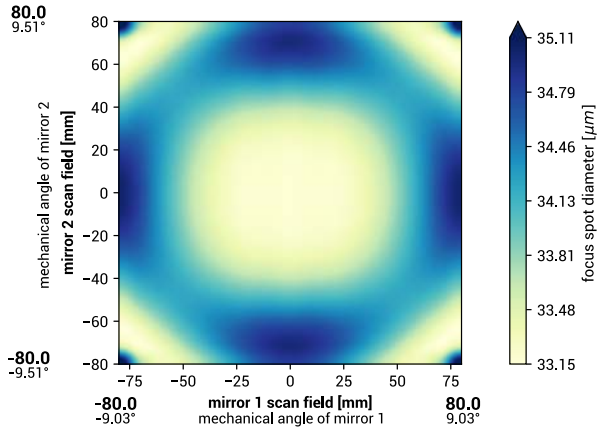
SPECIFICATIONS

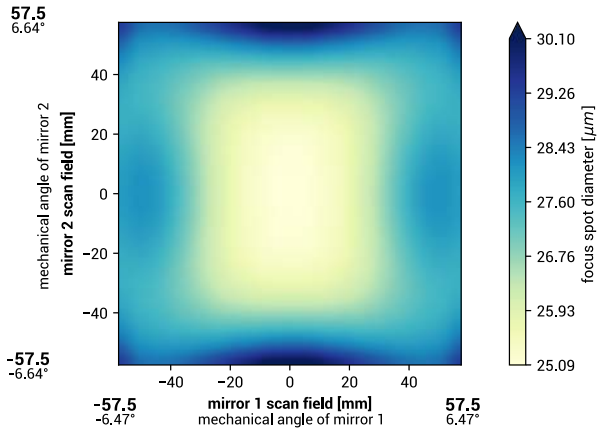
article number	S4LFT3250-328	
design wavelength [nm]	1064	
effective focal length [mm]	255.0	
max. entrance beam-Ø [mm]	15.0	20.0
aperture stop distance [mm]	32.5	46.5
working distance [mm]	321.3	321.4
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	160 x 160 24.0 / 41.0	115 x 115 34.0 / 59.0
max. telecentricity error [°]	10.7	7.0
total transmission [%]	> 97	
lens material	fused silica	
LIDT (coating)	5.0 J/cm² 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

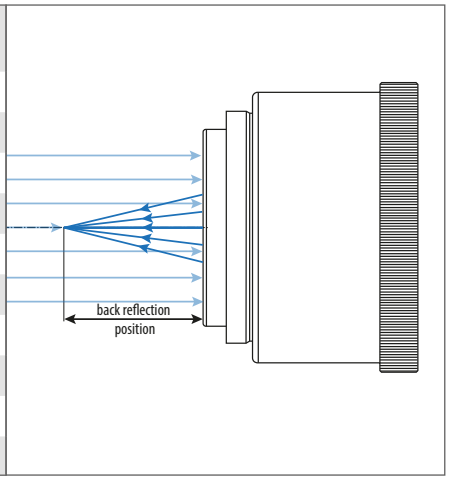
SPOT FOR 20.0 mm BEAM DIAMETER



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

BACK REFLECTION POSITION

back reflections [mm] for 1064
12.5
48.0
48.9
135.2
0.0
0.0
0.0
0.0
0.0
0.0



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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