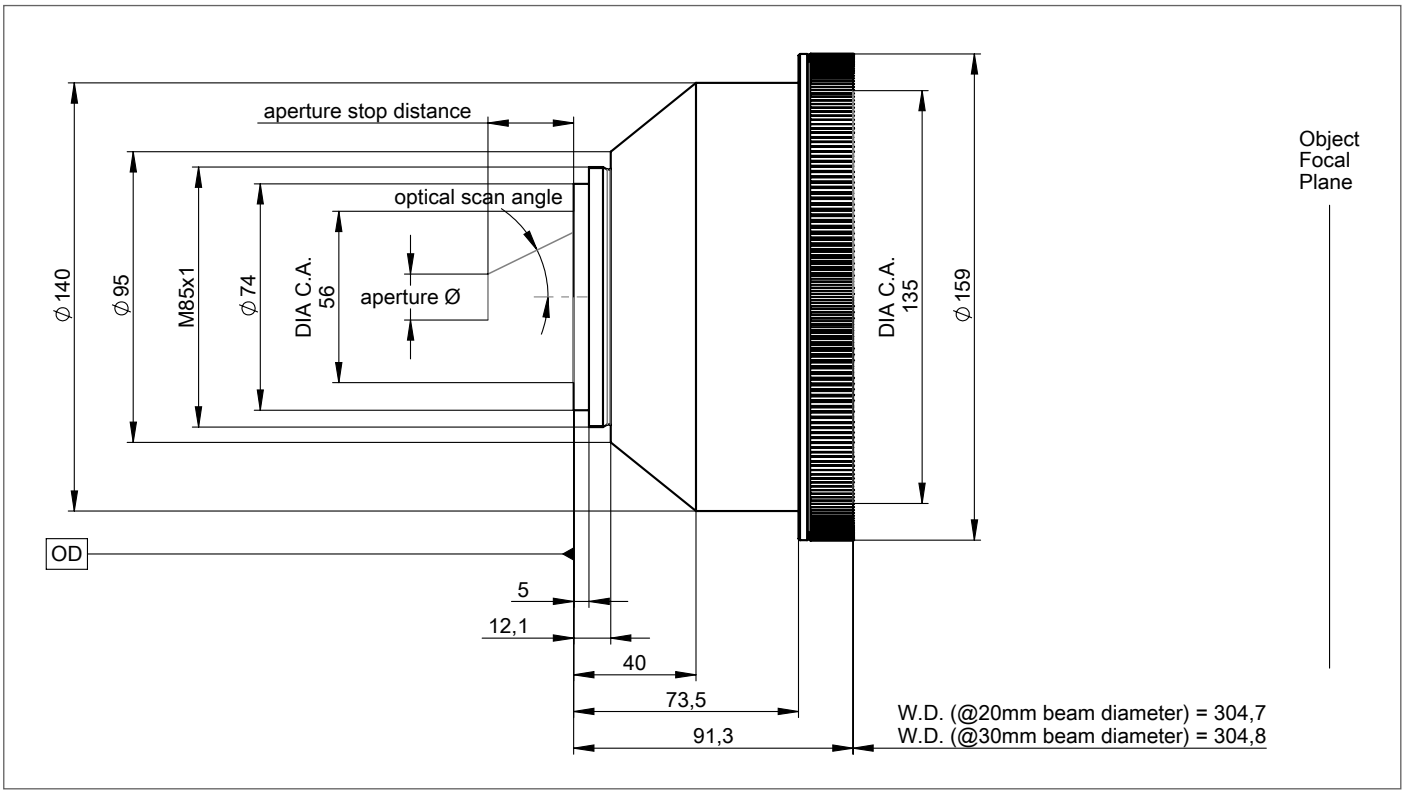
DATA SHEET

S4LFT3250-373

F-THETA
STANDARD - FUSED SILICA
420 - 480nm

ILLUSTRATION ONLY

OUTLINE DRAWING



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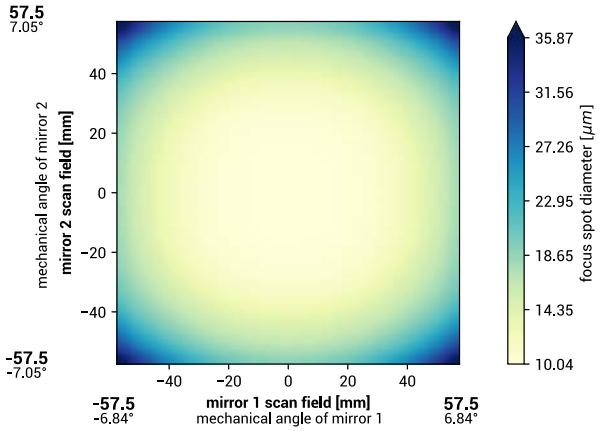
SPECIFICATIONS

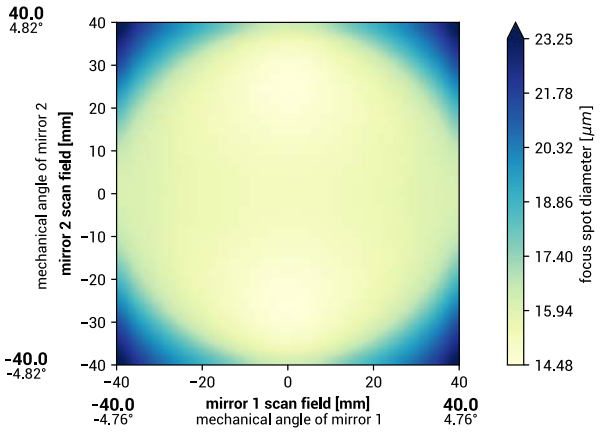
article number	S4LFT3250-373	
design wavelength [nm]	450	
effective focal length [mm]	240.9	
max. entrance beam-Ø [mm]	20.0	30.0
aperture stop distance [mm]	41.0	46.0
working distance [mm]	304.7	304.8
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	115 x 115 28.0 / 54.0	80 x 80 28.0 / 64.0
max. telecentricity error [°]	7.4	5.1
total transmission [%]	> 98	
lens material	fused silica	
LIDT (coating)	not specified	
SP and USP usable	yes	
weight [kg]	2.1	
cover glass	S4LPG2175-373	
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/e², clipped at 20.0 mm field size and mirror distances as given above for a two mirror scan system

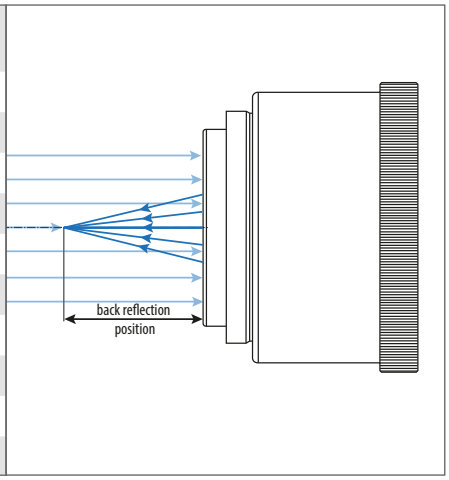
SPOT FOR 30.0 mm BEAM DIAMETER



spot diameter at 86.5 % level for a Gaussian beam (M^2 = 1) with 30.0 mm diameter at 1/e², 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
9.9
42.4
43.2
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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