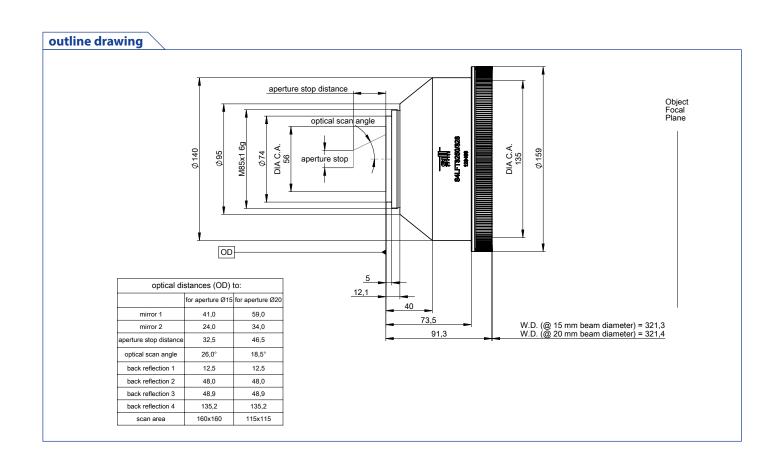
DATA SHEET (分新特光电 Sintec Optronics

S4LFT3250/328

F-Theta standard - fused silica 1030 - 1090 nm



illustration only



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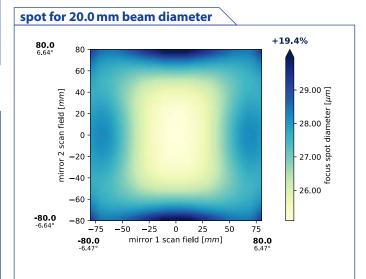


specifications			
article number	S4LFT3250/328		
design wavelength [nm]	1064		
effective focal length [mm]	255.0		
max. entrance beam-Ø [mm]	15.0	20.0	
optical scan angle [±°]	26.0	18.5	
scan length [mm] (1 mirror system)	226.3	162.7	
aperture stop distance [mm]	32.5	46.5	
working distance [mm]	321.3	321.4	
scan area for a 2 mirror system with mirror distance from lens housing for	160 x 160	115 x 115	
mirror 2 / mirror 1	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/cm² per 1ns pulse at 50Hz		
SP and USP usable	y	yes	
weight [kg]	1.3		
cover glass	S4LPG2175/328		
absorption [ppm]	111		
cleanliness	not specified		

spot for 15.0 mm beam diameter +5.9% 80 60 mirror 2 scan field [mm] 40 20 0 -20 -40 -60 33.25 -25 mirror 1 scan field [mm] 80.0

spot diameter at 86.5 % level for a Gaussian beam (M² = 1) with 15.0 mm diameter at 1/e², clipped at 15.0 mm field size and mirror distances as given above for a two mirror scan system

back reflection position back reflection [mm] for 1064 12.47 48.02 48.87 135.23 0.00 0.00 0.00 0.00 0.00 0.00



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

notes

The values given assume a vignetting of less than 1%

Effective focal length and working distance have tolerance of \pm 1.5 %

Absorption tolerance +/- 25 %. Absorption may degrade over time, correct cleaning is able to reset to factory condition.