

DATA SHEET

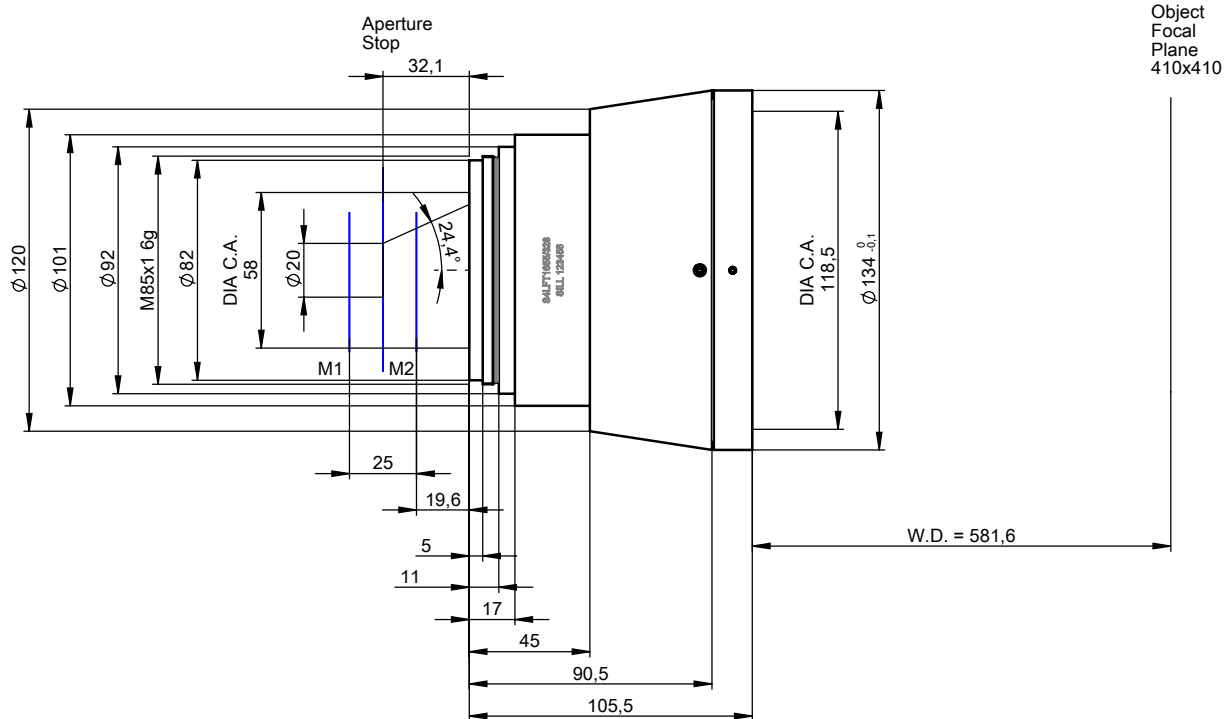
S4LFT1655/328

F-Theta
standard - fused silica
1030 - 1090 nm



illustration only

outline drawing

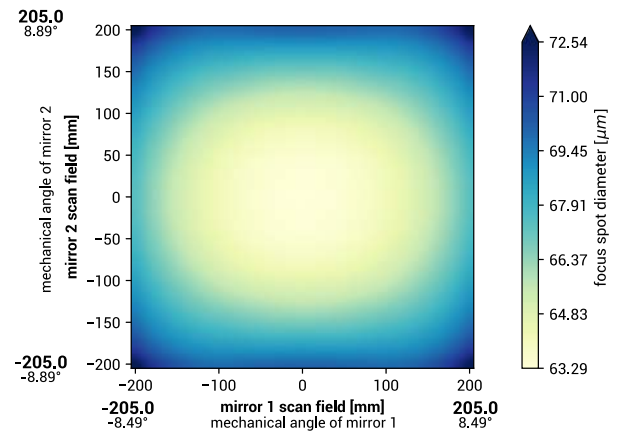


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specifications

article number	S4LFT1655/328
design wavelength [nm]	1064
effective focal length [mm]	649.4
working distance [mm]	581.6
max. entrance beam-Ø [mm]	20.0
aperture stop distance [mm]	32.1
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	410 x 410 19.6 / 44.6
max. telecentricity error [°]	22.5
total transmission [%]	> 98
absorption [ppm]	not specified
lens material	fused silica
LIDT (coating)	5.0 J/cm ² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	1.6
cover glass	S4LPG1305/526
cleanliness	not specified

spot



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 positions

back reflections [mm] for 1064	
3.14	
7.04	
7.67	
31.56	
271.95	
273.23	
579.66	
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.