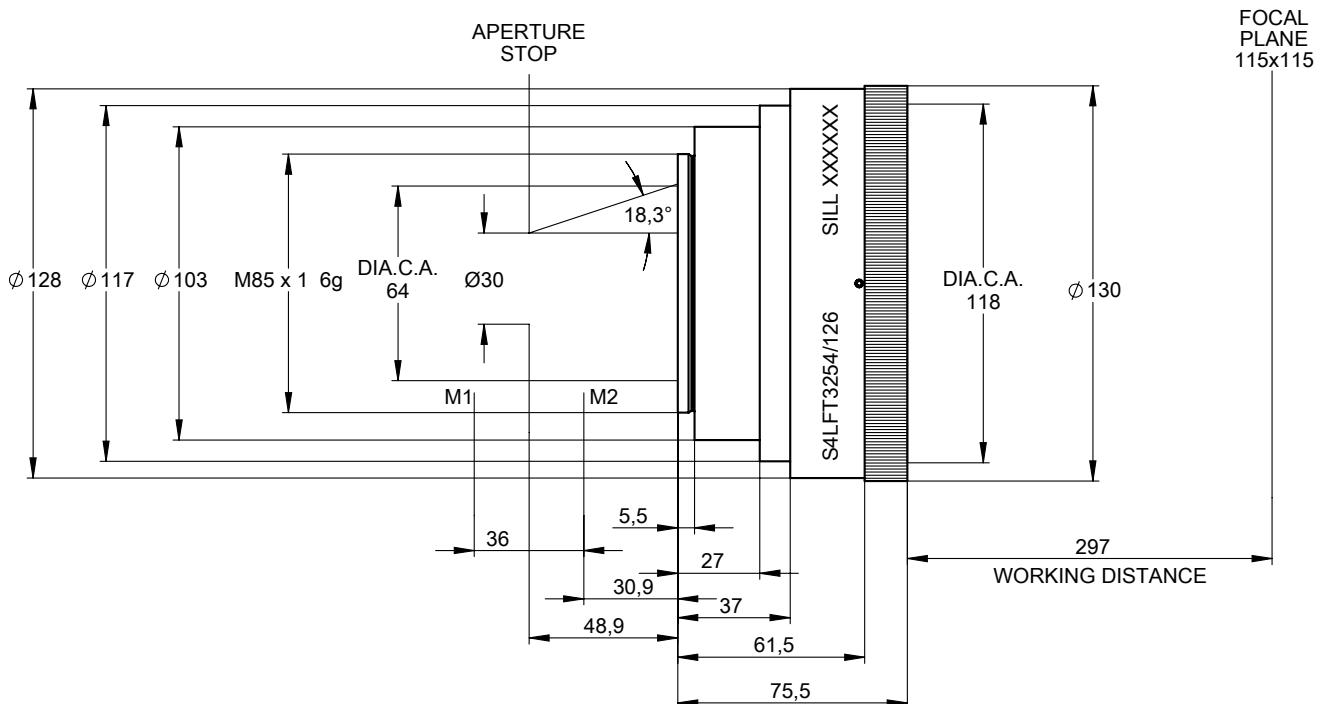


S4LFT3254/126

F-Theta
standard - optical glass
1064 nm



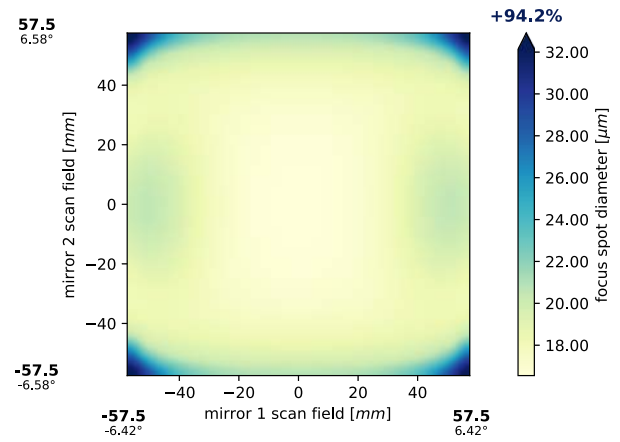
outline drawing



specifications

article number	S4LFT3254/126
design wavelength [nm]	1064
effective focal length [mm]	253.8
max. entrance beam-Ø [mm]	30.0
optical scan angle [±°]	18.3
scan length [mm] (1 mirror system)	162.6
aperture stop distance [mm]	48.9
working distance [mm]	297.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	115 x 115 30.9 / 66.9
max. telecentricity error [°]	8.5
total transmission [%]	> 97
lens material	optical glass
LIDT (coating)	5.0 J/cm ² per 1ns pulse at 50Hz
SP and USP usable	no
weight [kg]	1.9
cover glass	S4LPG0300/126
absorption [ppm]	not specified
cleanliness	not specified

spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 30.0 mm diameter at $1/e^2$, clipped at 30.0 mm field size and mirror distances as given above for a two mirror scan system

back reflection position

back reflection [mm] for 1064	
6.14	
31.17	
50.87	
59.34	
60.29	
245.73	
0.00	
0.00	
0.00	
0.00	

notes

The values given assume a vignetting of less than 1 %

Effective focal length and working distance have tolerance of +/- 1.5 %

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