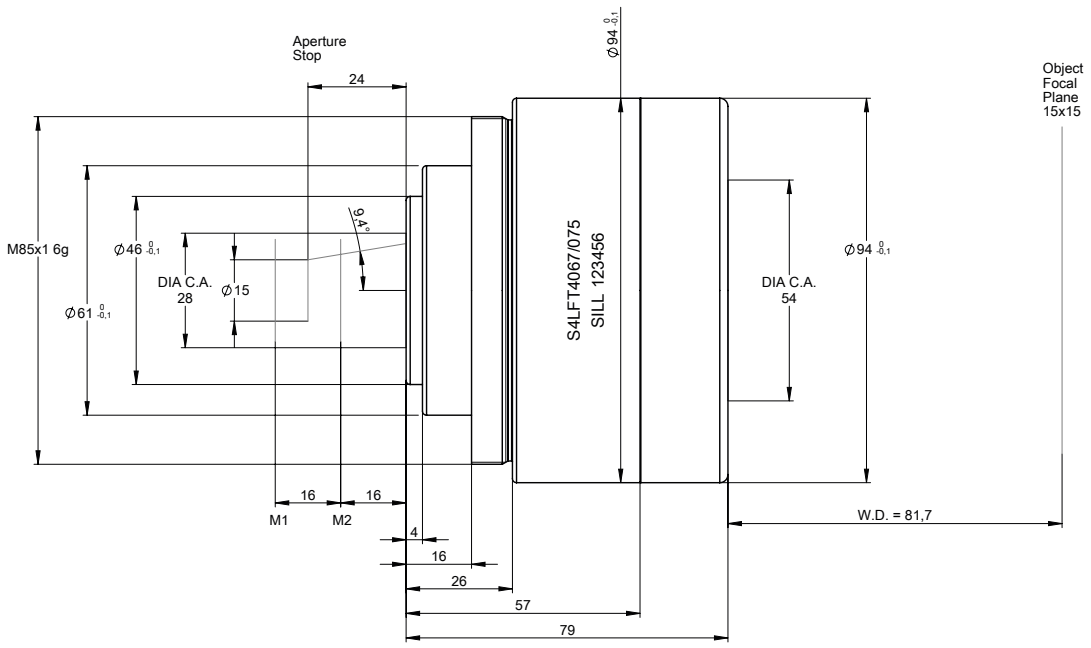
DATA SHEET

新特光电 Sintec Optronics

S4LFT4067/075

F-Theta
telecentric - fused silica
355 nm

outline drawing



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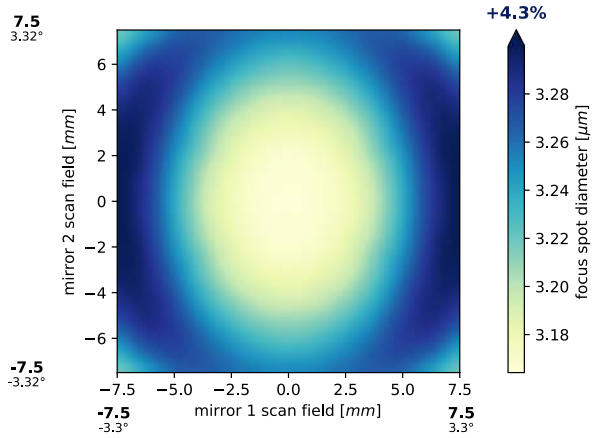
新特光电 Sintec Optronics

specifications

article number	S4LFT4067/075
design wavelength [nm]	355
effective focal length [mm]	65.5
max. entrance beam-Ø [mm]	15.0
optical scan angle [±°]	9.4
scan length [mm] (1 mirror system)	21.2
aperture stop distance [mm]	24.0
working distance [mm]	81.7
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1	15 x 15 16.0 / 32.0
max. telecentricity error [°]	1.8
total transmission [%]	> 97
lens material	fused silica
LIDT (coating)	1.0 J/cm² per 1ns pulse at 50Hz
SP and USP usable	yes
weight [kg]	1
cover glass	S4LPG0394/075
absorption [ppm]	not specified
cleanliness	not specified

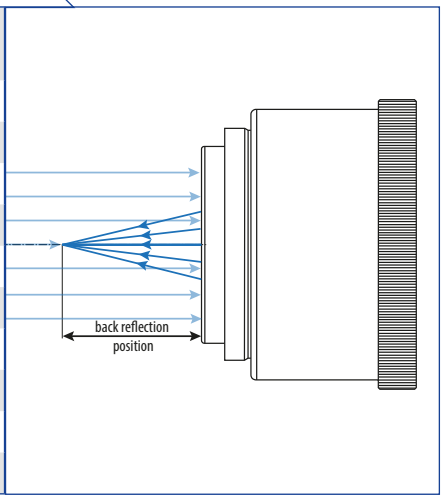
spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$)
with 10.0 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

back reflection position

back reflection [mm] for 355
23.91
0.00
0.00
0.00
0.00
0.00
0.00
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 tolerance of +/- 1.5 %.

Absorption tolerance +/- 25 %. Absorption may increase. Correct cleaning establishes original condition.