DATA SHEET

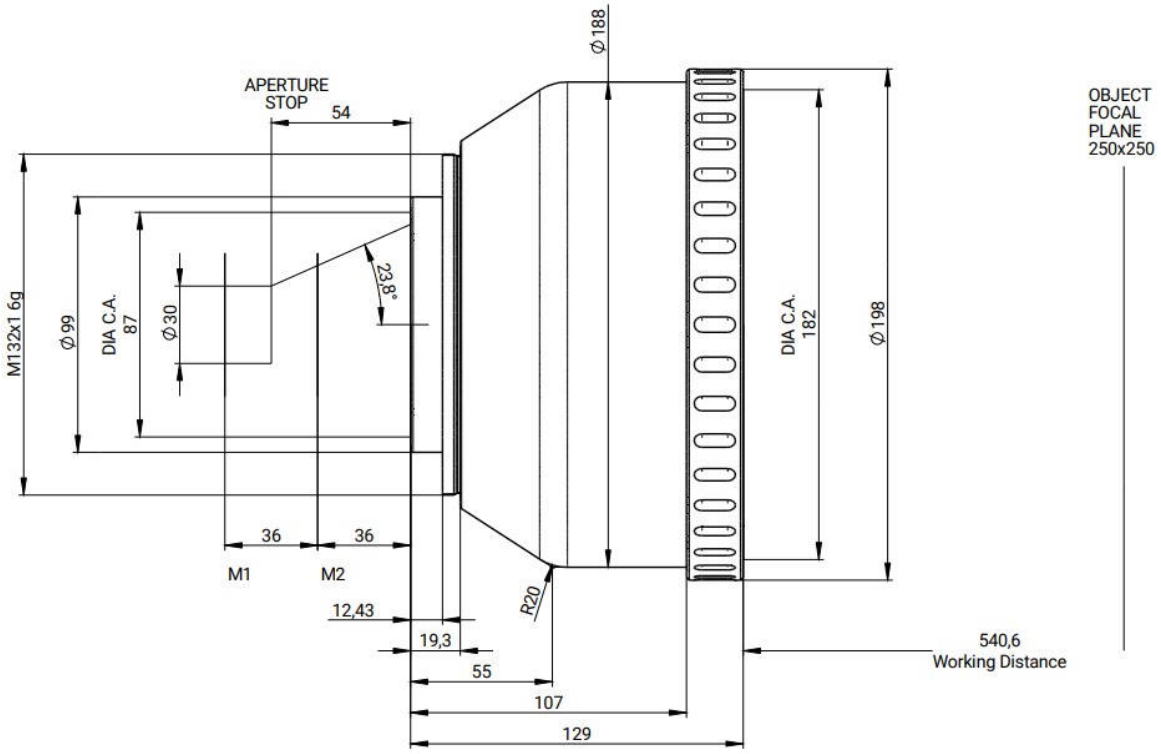
S4LFT5430-328

High power F-Theta
fused silica
1030 - 1090 nm



illustration only

outline drawing



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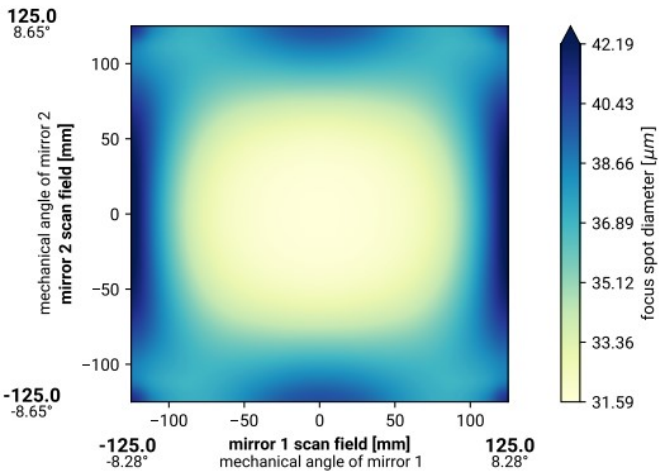
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DATA SHEET

specifications

article number	S4LFT5430-328
design wavelength [nm]	1070
effective focal length [mm]	430
working distance [mm]	540.6
max. entrance beam-Ø [mm]	30.0
aperture stop distance [mm]	54.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	250 x 250 36.0 / 72.0
max. telecentricity error [°]	11.1
total transmission [%]	> 97
spot diameter opt. axis	31.6 µm
lens material	fused silica
LIDT (coating)	5.0 MW/cm² cw 17.6 J/cm² @1ns, 50Hz
SP and USP usable	yes
weight [kg]	5.0
cover glass	S4LPG5430-328
accessory	-

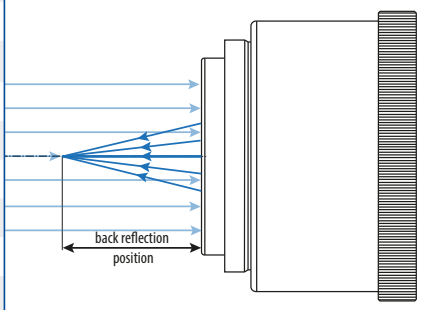
spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 20.0 mm diameter at $1/e^2$, clipped at 30.0 mm
field size and mirror distances as given above for a two mirror scan system

back reflection positions

back reflections [mm] for 1070 nm
1.0
21.5
99.0
103.1
109.8



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.

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