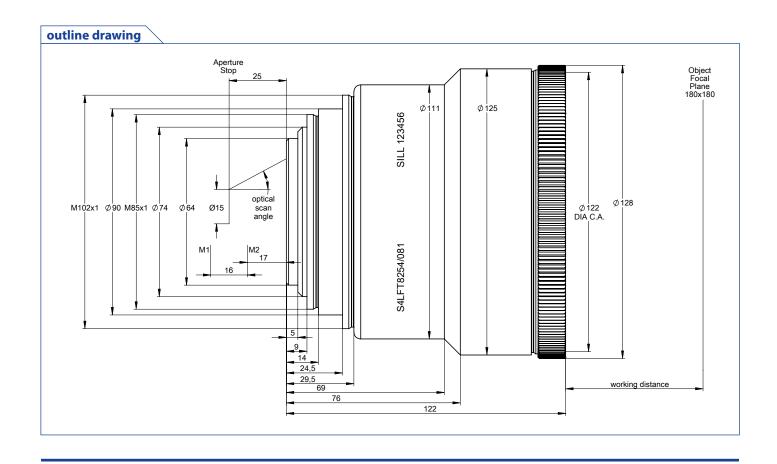
# **DATA SHEET**



### S4LFT8254/081

F-Theta multi-spectral 532 + 1064 nm

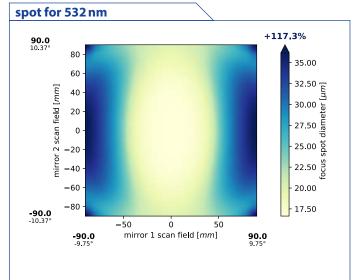




## **DATA SHEET**

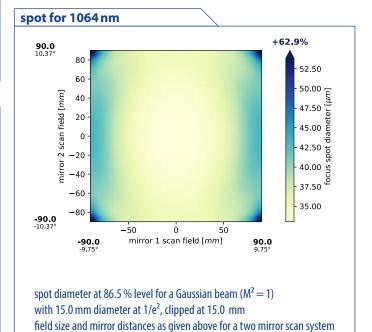


specifications			
article number	S4LFT825	S4LFT8254/081	
design wavelength [nm]	532	1064	
effective focal length [mm]	254.0	253.9	
max. entrance beam-Ø [mm]	15.	15.0	
optical scan angle [±°]	28.2	28.2	
scan length [mm] (1 mirror system)	254.	254.6	
aperture stop distance [mm]	25.	25.0	
working distance [mm]	211.6	211.4	
scan area for a 2 mirror system with mirror distance from lens housing for		180 x 180	
mirror 2 / mirror 1	,	17.0 / 33.0	
max. telecentricity error [°]	19.7	19.6	
lateral color shift [µm]			
chromatic focal shift [mm]			
total transmission [%]	> 9	> 94	
lens material	optical	optical glass	
LIDT (coating)		2.5 J/cm² per 1ns pulse at 50Hz	
SP and USP usable	no	no	
weight [kg]	2.2	2.2	
cover glass	S4LPG030	S4LPG0300/081	
absorption [ppm]	not spe	not specified	
cleanliness	not spe	not specified	



spot diameter at 86.5 % level for a Gaussian beam (M<sup>2</sup> = 1) with 15.0 mm diameter at 1/e<sup>2</sup>, 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 532 nm for 1064 nm 0.44 0.60 1.08 1.23 12.46 10.46 20.70 21.52 25.46 24.41 35.34 33.71 57.79 56.92 59.63 57.30 60.75 58.77 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.

