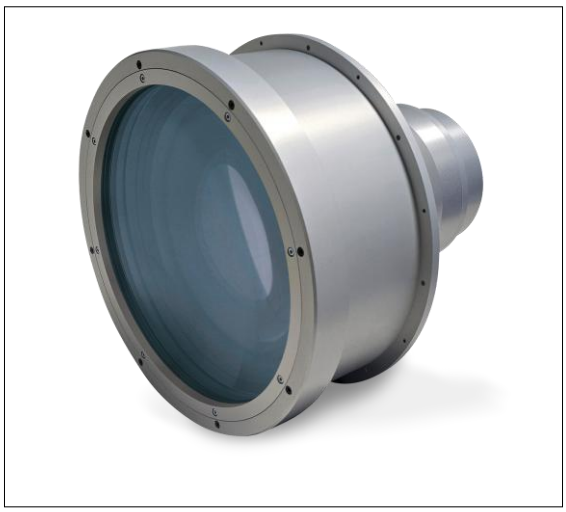
DATA SHEET

S4LFT3340-075

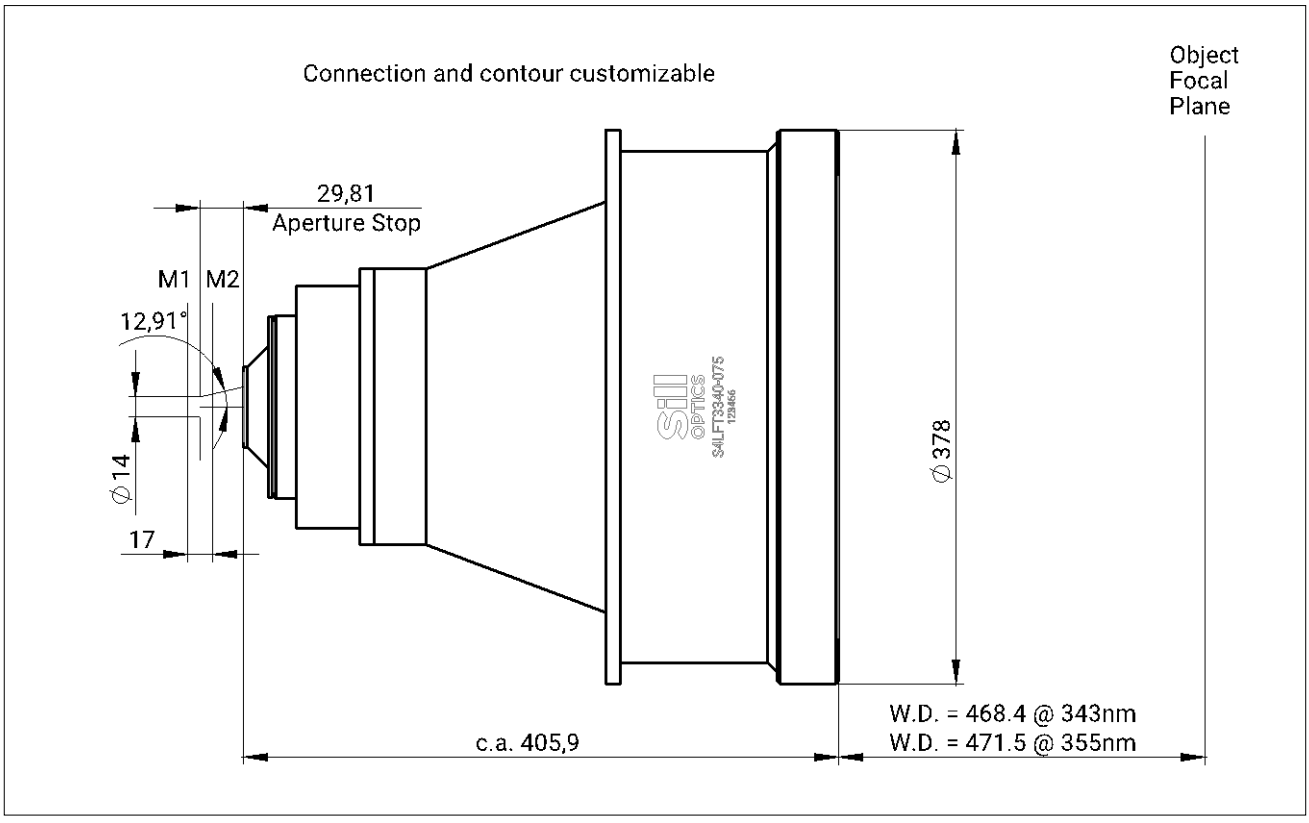
F-THETA

TELECENTRIC - FUSED SILICA

343 - 355 nm



OUTLINE DRAWING



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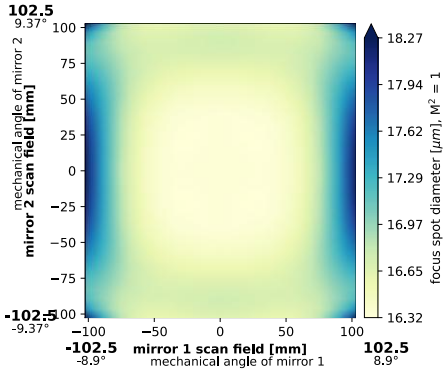
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DATA SHEET

SPECIFICATIONS

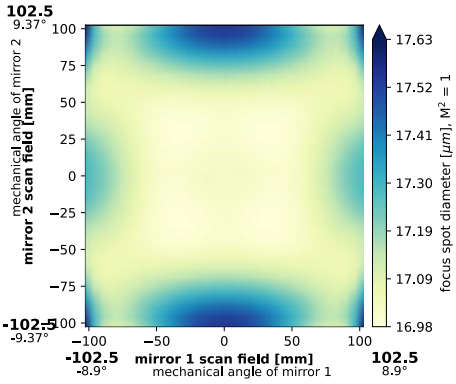
article number	S4LFT3340-075	
design wavelength [nm]	343	355
effective focal length [mm]	338.00	340.00
working distance [mm]	468.40	471.50
max. entrance beam-Ø [mm]	14.00	
aperture stop distance [mm]	27.80	
scan area for a 2 mirror system with mirror distance from	205 x 205	
lens housing for mirror 2 / mirror 1 [mm x mm]	21.3 / 38.3	
max. telecentricity error [°]	0.85	0.85
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]	23.00	
cover glass	S4LPG3340-075	

SPOT FOR 343 nm



Spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 10.00 mm diameter at $1/e^2$, clipped at 14.00 mm field size and mirror distances as given above for a two mirror scan system

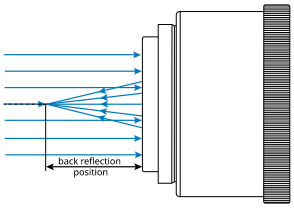
SPOT FOR 355 nm



Spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 10.00 mm diameter at $1/e^2$, clipped at 14.00 field size and mirror distances as given above for a two mirror scan system

BACK REFLECTION POSITIONS

back reflections [mm] for 343 nm	back reflections [mm] for 355 nm
373.2	373.20
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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%
Max. entrance beam diameter clipped at $1/e^2$

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