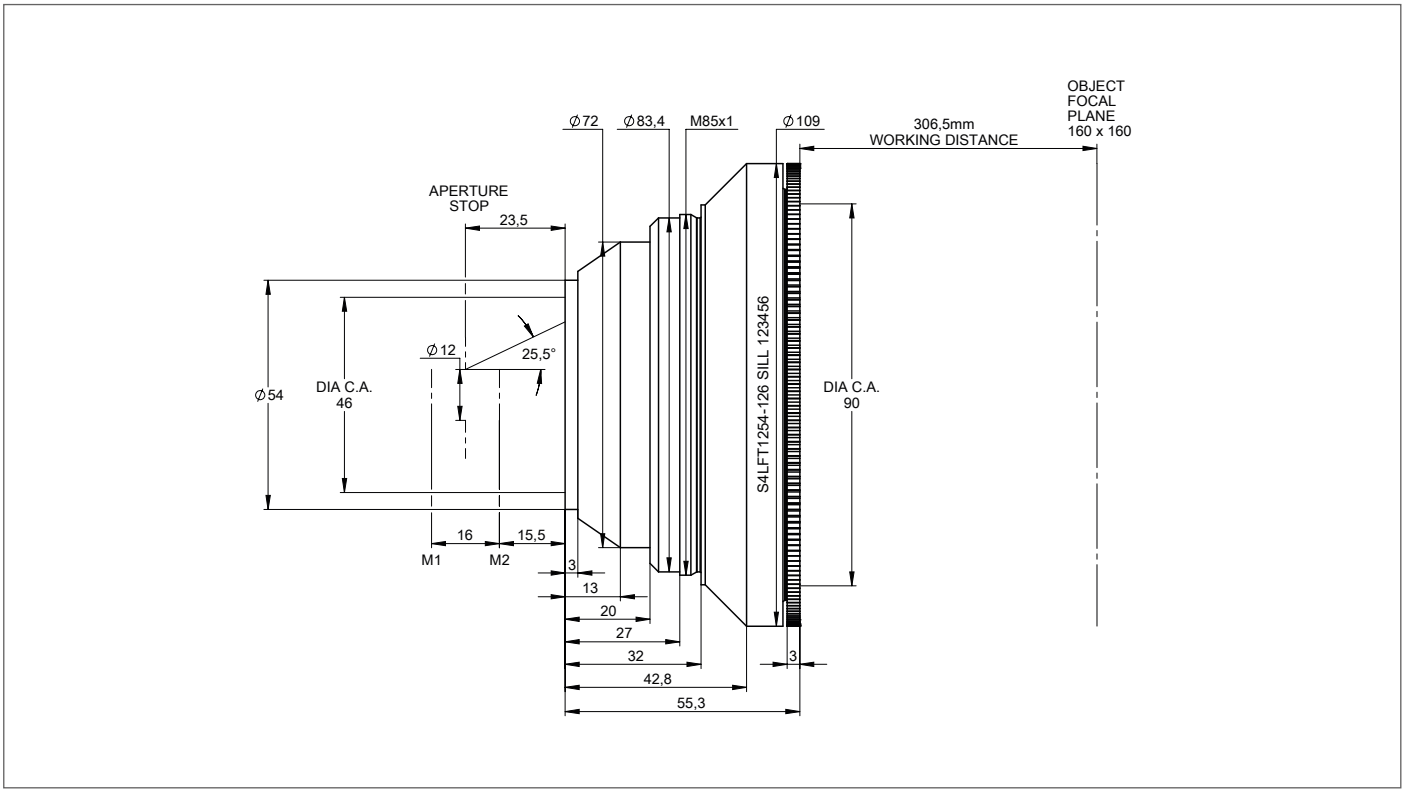
# DATA SHEET

## S4LFT1254-126

F-THETA
STANDARD - OPTICAL GLASS
1064 nm




### OUTLINE DRAWING




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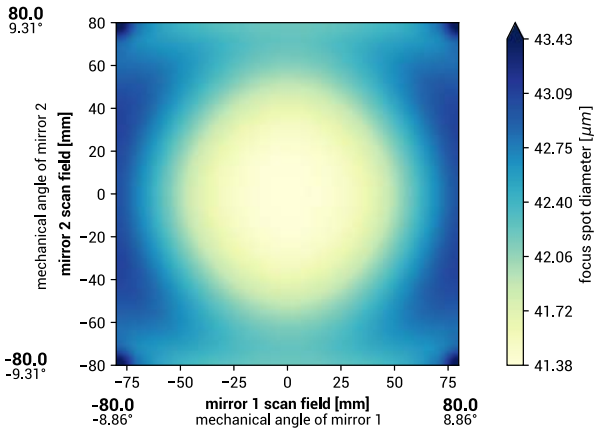
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# DATA SHEET

## SPECIFICATIONS

| | |
|---|---|
| article number | S4LFT1254-126 |
| design wavelength [nm] | 1064 |
| effective focal length [mm] | 254.7 |
| working distance [mm] | 306.5 |
| max. entrance beam-Ø [mm] | 12.0 |
| aperture stop distance [mm] | 23.5 |
| scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm] | 160 x 160<br>15.5 / 31.5 |
| max. telecentricity error [°] | 14.9 |
| total transmission [%] | > 96 |
| absorption [ppm] | not specified |
| lens material | optical glass |
| LIDT (coating) | 5.0 J/cm² per 1ns pulse at 50Hz |
| SP and USP usable | no |
| weight [kg] | 0.7 |
| cover glass | S4LPG0090-081 |
| cleanliness | not specified |

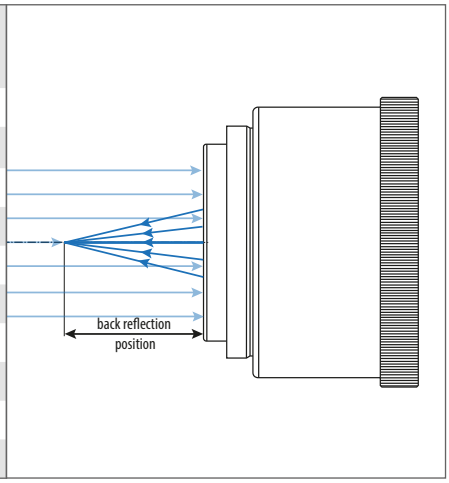
## SPOT




spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 12.0 mm diameter at $1/e^2$, clipped at 12.0 mm
field size and mirror distances as given above for a two mirror scan system

## BACK REFLECTION POSITIONS

| back reflections [mm] for 1064 |
|---|
| 5.1 |
| 10.6 |
| 20.9 |
| 75.5 |
| 76.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |




## 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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