

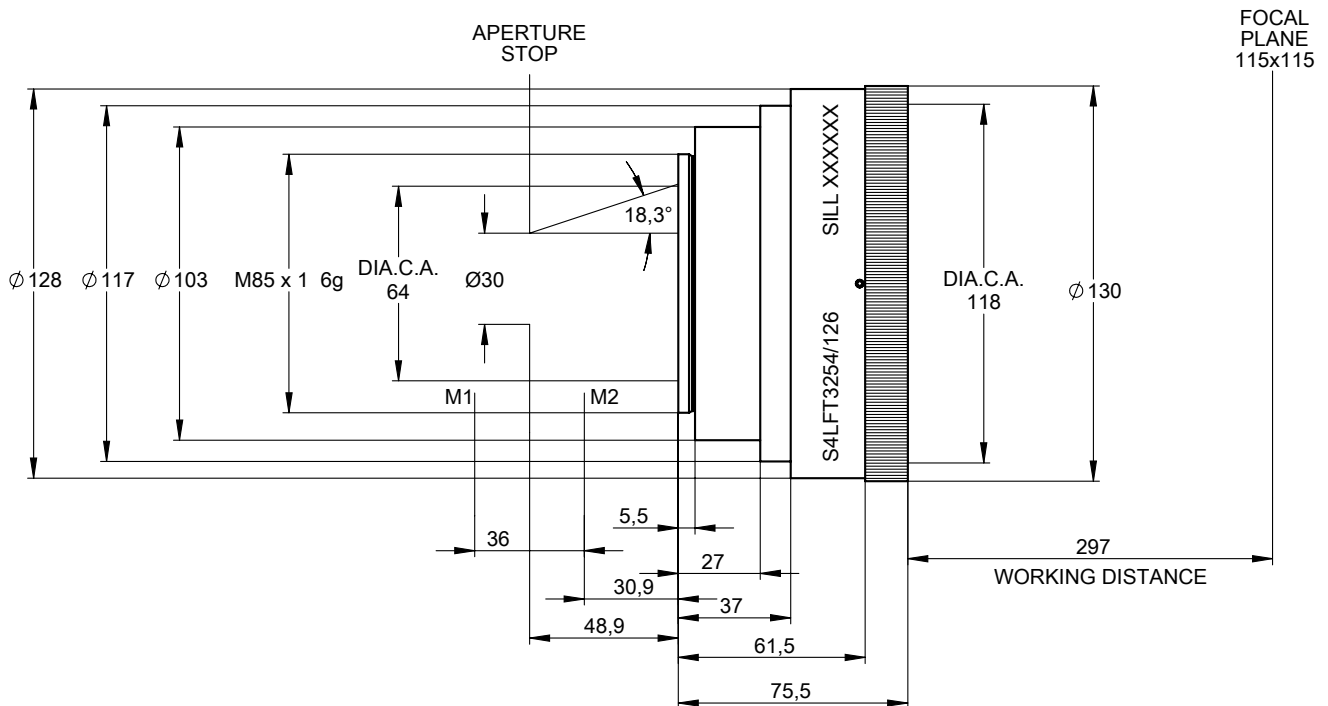
DATA SHEET

S4LFT3254/126

F-Theta
standard - optical glass
1064 nm



outline drawing

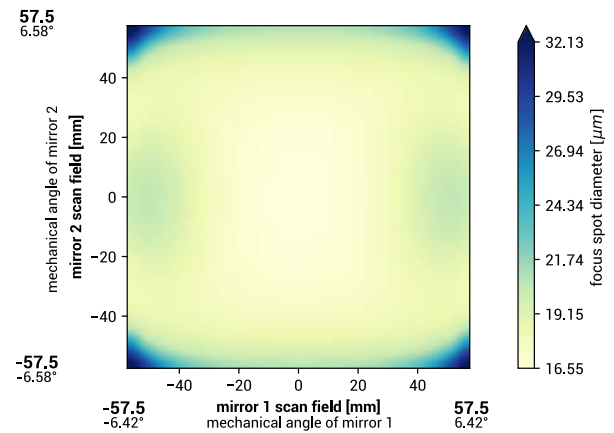


DATA SHEET

specifications

| | |
|--|---|
| article number | S4LFT3254/126 |
| design wavelength [nm] | 1064 |
| effective focal length [mm] | 253.8 |
| working distance [mm] | 297 |
| max. entrance beam-Ø [mm] | 30.0 |
| aperture stop distance [mm] | 48.9 |
| scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm] | 115 x 115 30.9 / 66.9 |
| max. telecentricity error [°] | 8.5 |
| total transmission [%] | > 97 |
| absorption [ppm] | not specified |
| lens material | optical glass |
| LIDT (coating) | 5.0 J/cm ² per 1ns pulse at 50Hz |
| SP and USP usable | no |
| weight [kg] | 1.9 |
| cover glass | S4LPG0300/126 |
| cleanliness | not specified |

spot



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 30.0 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 1064 | |
|--------------------------------|--|
| 6.14 | |
| 31.17 | |
| 50.87 | |
| 59.34 | |
| 60.29 | |
| 245.73 | |
| 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.