

# DATA SHEET

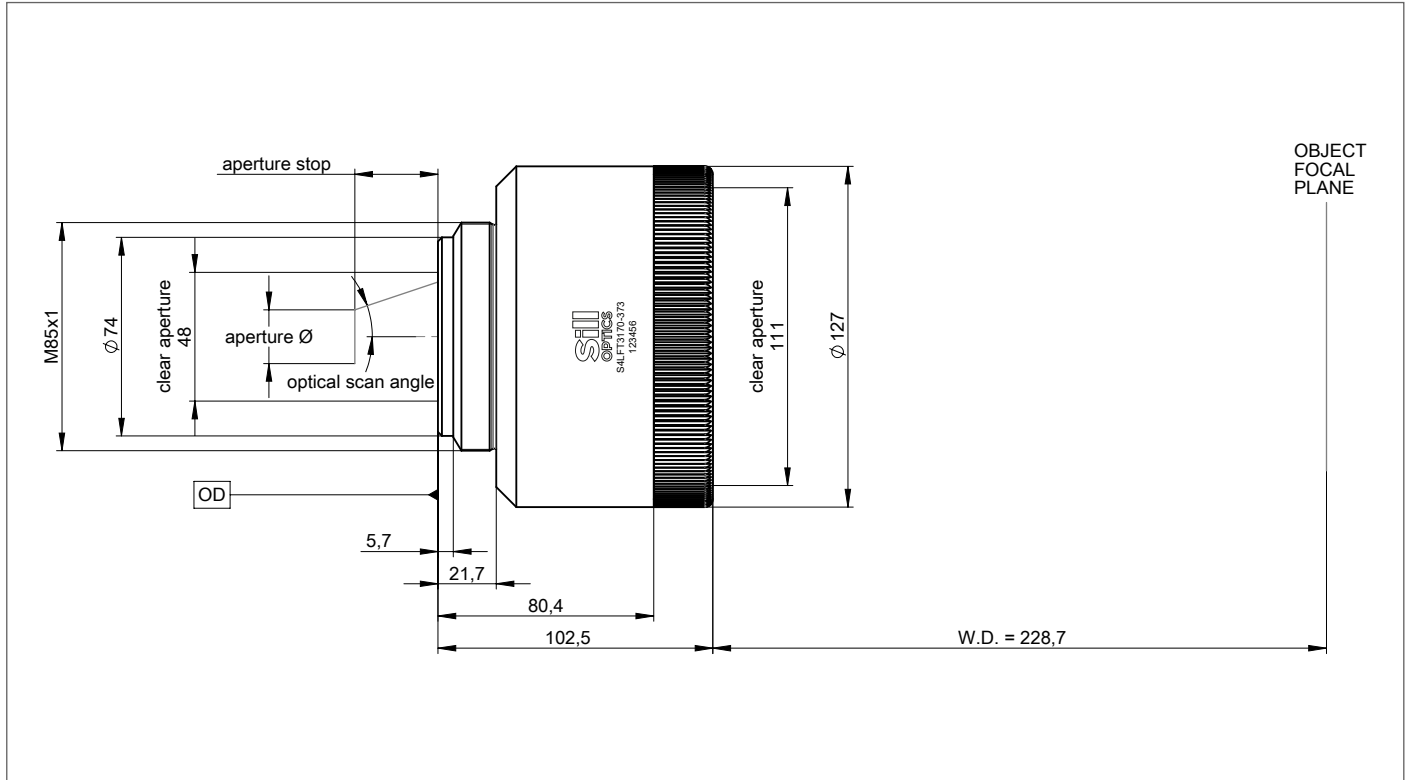
## S4LFT3170-373

F-THETA  
TELECENTRIC - FUSED SILICA  
420 - 480nm



ILLUSTRATION ONLY

### OUTLINE DRAWING



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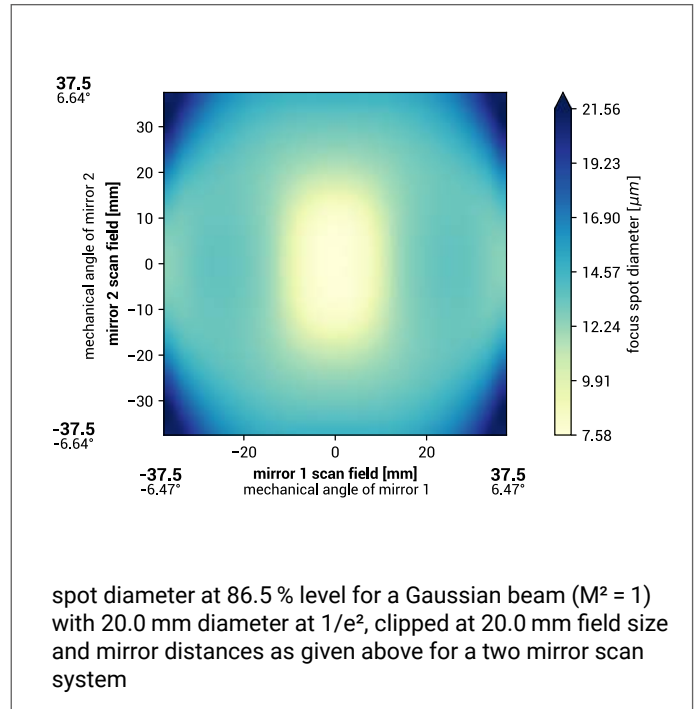
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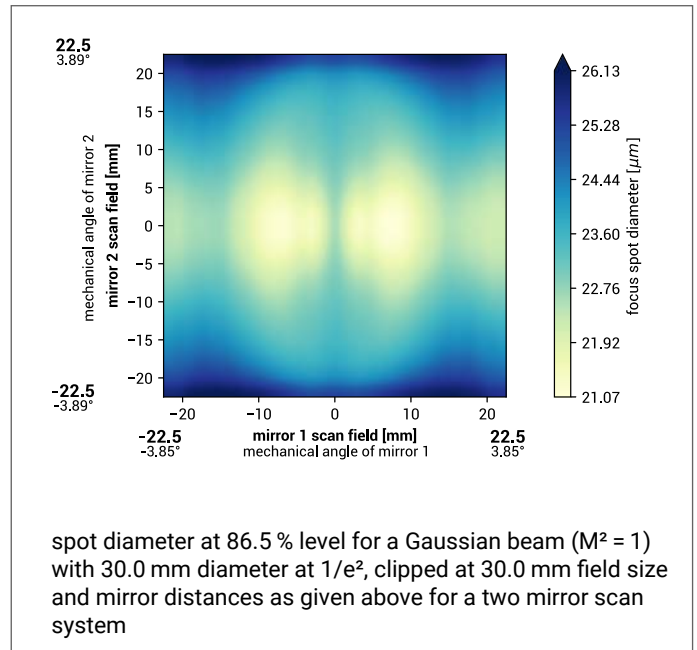
## SPECIFICATIONS

|  |                        |                        |
|--|------------------------|------------------------|
| article number   | S4LFT3170-373          |                        |
| design wavelength [nm]   | 450                    |                        |
| effective focal length [mm]  | 168.0                  |                        |
| max. entrance beam-Ø [mm]  | 20.0                   | 30.0                   |
| aperture stop distance [mm]  | 31.0                   | 46.0                   |
| working distance [mm]  | 228.3                  | 228.3                  |
| scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 | 75 x 75<br>18.0 / 44.0 | 45 x 45<br>28.0 / 64.0 |
| max. telecentricity error [°]  | 3.3                    | 1.7                    |
| total transmission [%]   | > 98                   |                        |
| lens material  | fused silica           |                        |
| LIDT (coating)   | not specified          |                        |
| SP and USP usable  | yes                    |                        |
| weight [kg]  | 1.9                    |                        |
| cover glass  | S4LPG4160-373          |                        |
| absorption [ppm]   | not specified          |                        |
| cleanliness  | not specified          |                        |

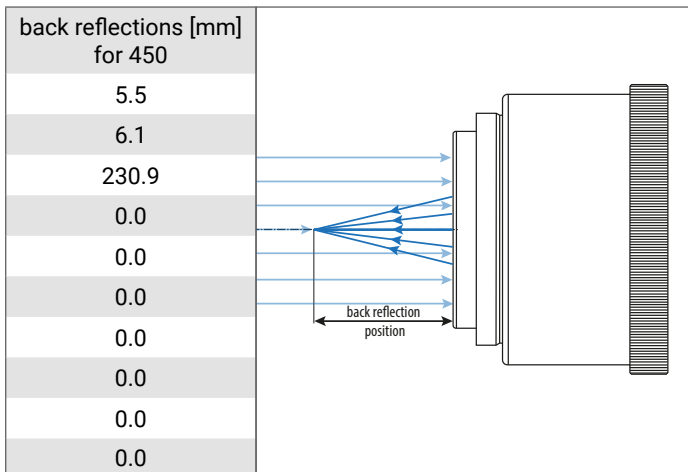
## SPOT FOR 20.0mm BEAM DIAMETER



## SPOT FOR 30.0mm BEAM DIAMETER



## BACK REFLECTION POSITION



## REMARKS

- The stated values are based on a vignetting of less than 1 %.
- Effective focal length and working distance have tolerance of +/- 1.5 %.
- Absorption tolerance +/- 25 %. Absorption may increase. Correct cleaning establishes original condition.

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