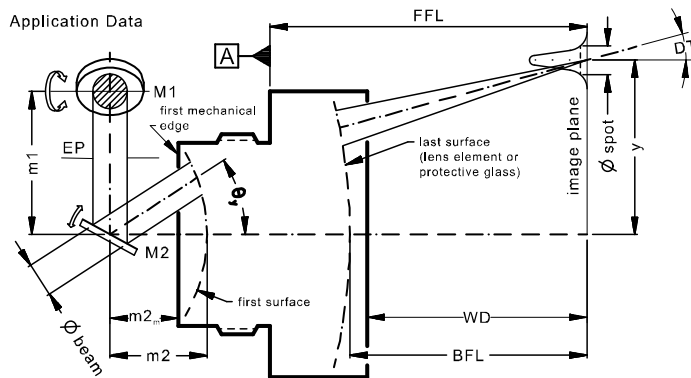


LINOS F-Theta-Ronar Lens

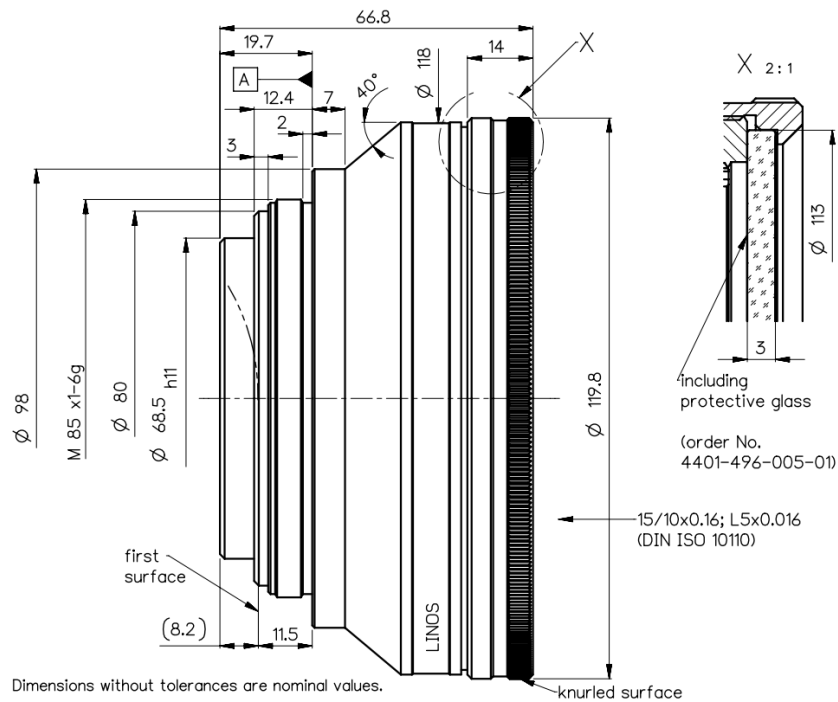
f = 255mm, 515-540nm, fused silica, low absorption



| Part number | 4401-496-000-26 | | |
|--|-----------------------------|----------------------|----------------------------------|
| Design wavelength | λ | (nm) | 532 |
| Effective focal length | EFL | (mm) | 255.0 |
| Back focal length | BFL | (mm) | 321.0 |
| Working distance | WD | (mm) | 318.1 |
| Flange focal length | FFL | (mm) | 365.2 |
| Beam diameter 1/e ² truncated | $\varnothing_{\text{beam}}$ | (mm) | 10.0 |
| Recommended mirror distance m1 | m1 | (mm) | 13.0 |
| Recommended mirror distance m2 | m2 | (mm) | 25.0 |
| Recommended mirror distance m2 _{mechanical} | m2 _m | (mm) | 16.8 |
| Scan angle | $\pm\theta$ | (°) | 20.9 |
| Scan area (edge length of scan field) | 2x * 2y | (mm ²) | 183 x 183 |
| Spot diameter | $\varnothing_{\text{spot}}$ | (μm) | 25 |
| Telecentric error (maximum deviation) | DT | (°) | 15.2 |
| Total transmission @ 515 - 540nm | T | (%) | > 96 |
| Group delay dispersion at λ | GDD | (fs ²) | 3294 |
| LIDT coating @ 532nm, 8ns, 100Hz | | (J/cm ²) | 20 |
| LIDT coating @ 515nm, 204fs, 50kHz | | (J/cm ²) | 0.6 |
| Focused back reflex positions from first surface | | (mm) | 4.1; 5.8; 22.9; 45.0; 72.5; 73.1 |
| Weight | | (g) | 990 |
| Protective glass | PG | | 4401-496-005-01 |

Optical parameters calculated for a 1-mirror system
 Subject to technical change

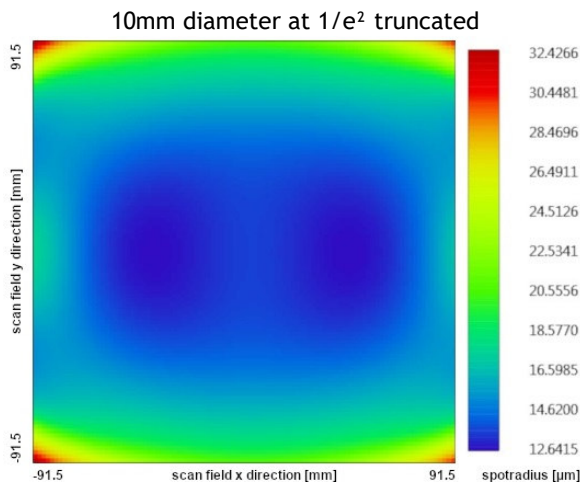
Mechanical drawing



Dimensions without tolerances are nominal values and illustration not to scale

Spot variation over scanfield

Spot radius in μm at $1/e^2$ level for a Gaussian laser beam ($M^2=1$)
field size and mirror distances as given above for a 2 mirror scan system, vignetting $\leq 1\%$



Notes



For technical explanations, see our homepage.

In a 1-mirror system, the entrance pupil (EP) is the position of the scan mirror. In a 2-mirror system, it is the point where the scan mirrors should be placed around symmetrically to reach specified performance.