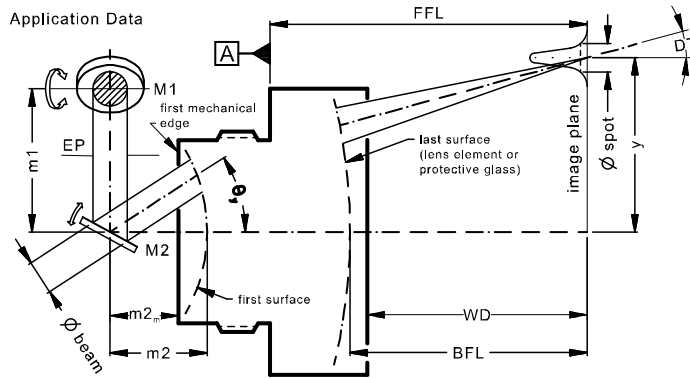


LINOS F-Theta-Ronar Lens

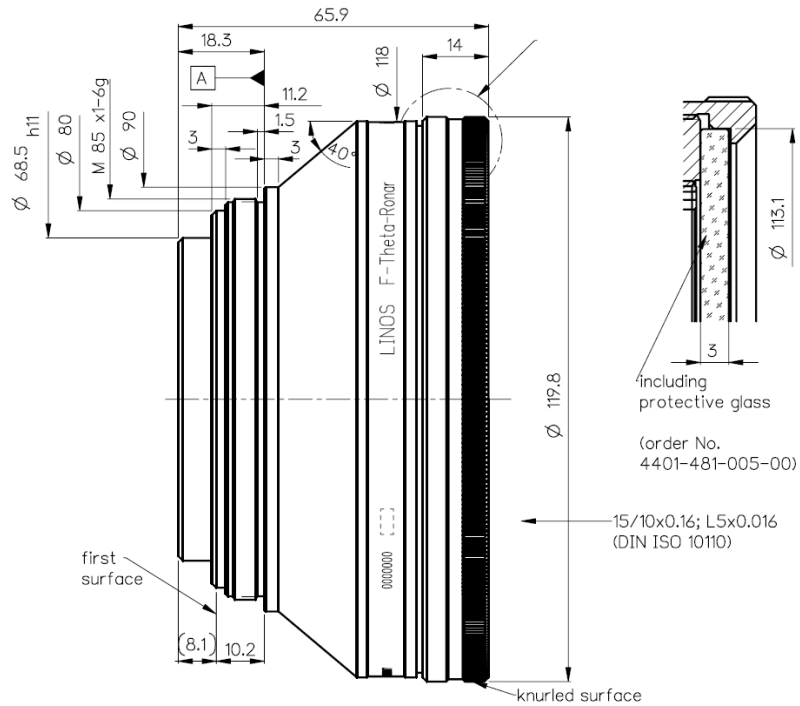
f = 255mm, 340-360nm, fused silica



| Part number | 4401-481-000-21 | | |
|--|----------------------|--------------|-----------------------------------|
| Design wavelength | λ | (nm) | 355 |
| Effective focal length | EFL | (mm) | 254.7 |
| Back focal length | BFL | (mm) | 321.0 |
| Working distance | WD | (mm) | 318.1 |
| Flange focal length | FFL | (mm) | 365.7 |
| Beam diameter $1/e^2$ truncated | \varnothing_{beam} | (mm) | 10.0 |
| Recommended mirror distance m1 | m1 | (mm) | 13.0 |
| Recommended mirror distance m2 | m2 | (mm) | 30.0 |
| Recommended mirror distance $m2_{mechanical}$ | $m2_m$ | (mm) | 21.9 |
| Scan angle | $\pm\theta$ | ($^\circ$) | 19.3 |
| Scan area (edge length of scan field) | $2x * 2y$ | (mm^2) | 170 x 170 |
| Spot diameter | \varnothing_{spot} | (μm) | 17 |
| Telecentric error (maximum deviation) | DT | ($^\circ$) | 13.6 |
| Total transmission @ 340 - 360nm | T | (%) | > 96 |
| Group delay dispersion at λ | GDD | (fs^2) | 5807 |
| LIDT coating @ 355nm, 6ns, 100Hz | | (J/cm^2) | 4 |
| Focused back reflex positions from first surface | | (mm) | 4.5; 11.8; 23.7; 36.3; 71.9; 72.5 |
| Weight | | (g) | 1000 |
| Protective glass | PG | | 4401-481-005-00 |

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

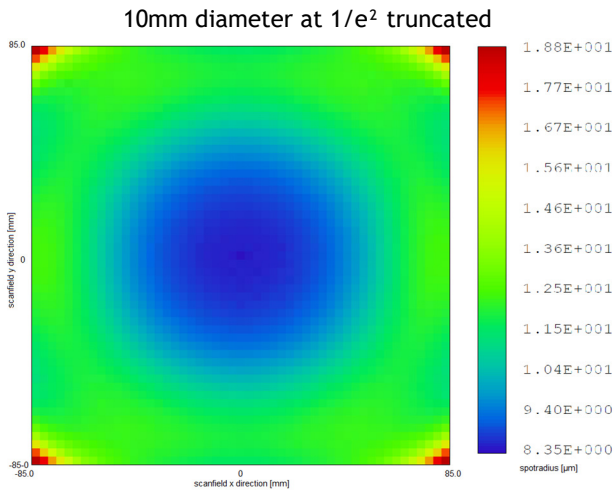
Mechanical drawing



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



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.