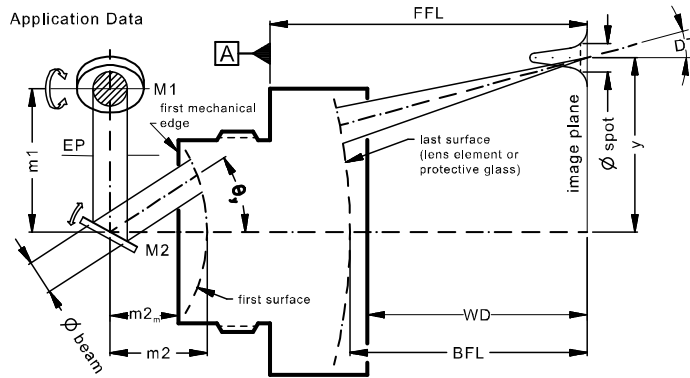


# LINOS F-Theta-Ronar Lens

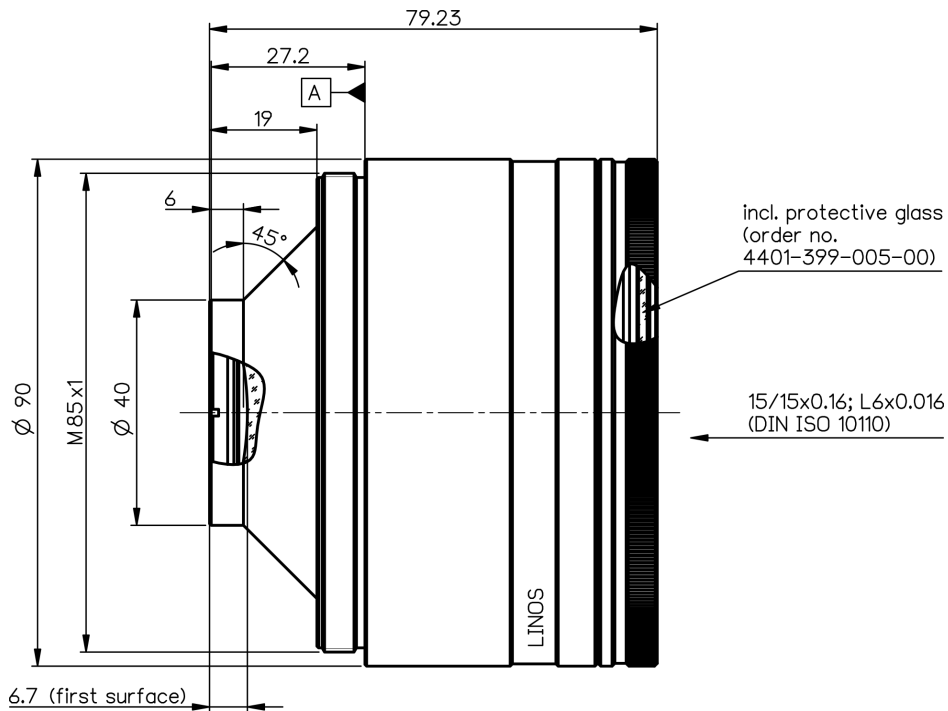
f = 70mm, 340-360nm, telecentric, fused silica



Part number	4401-576-000-21		
Design wavelength	$\lambda$	(nm)	355
Effective focal length	EFL	(mm)	73.9
Back focal length	BFL	(mm)	94.3
Working distance	WD	(mm)	92.5
Flange focal length	FFL	(mm)	144.3
Beam diameter 1/e <sup>2</sup> truncated	$\varnothing_{\text{beam}}$	(mm)	10.0
Recommended mirror distance m1	m1	(mm)	13.0
Recommended mirror distance m2	m2	(mm)	19.2
Recommended mirror distance m2 <sub>mechanical</sub>	m2 <sub>m</sub>	(mm)	12.5
Scan angle	$\pm\theta$	(°)	11.3
Scan area (edge length of scan field)	2x * 2y	(mm <sup>2</sup> )	28 x 28
Spot diameter	$\varnothing_{\text{spot}}$	( $\mu\text{m}$ )	5
Telecentric error (maximum deviation)	DT	(°)	0.8
Total transmission @ 340 - 360nm	T	(%)	> 96
Group delay dispersion at $\lambda$	GDD	(fs <sup>2</sup> )	5556
LIDT coating @ 355nm, 6ns, 100Hz		(J/cm <sup>2</sup> )	4
LIDT coating @ 343nm, 200fs, 1kHz		(J/cm <sup>2</sup> )	0.4
Focused back reflex positions from first surface		(mm)	1.28; 1.3; 26.1
Weight		(g)	810
Protective glass	PG		4401-399-005-00

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

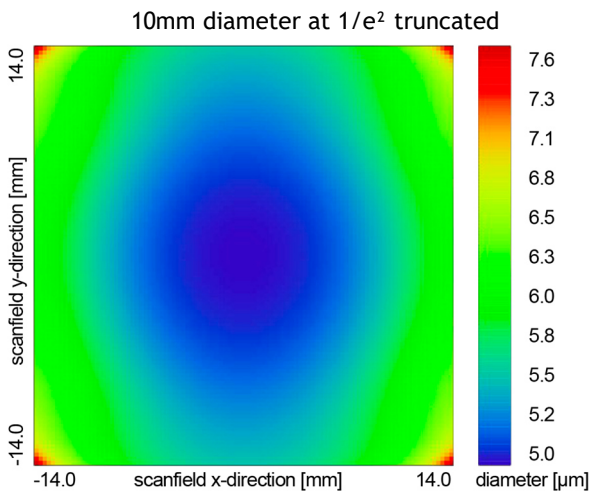
## Mechanical drawing



Dimensions without tolerances are nominal values and illustration not to scale

## Spot variation over scan field

Spot radius in  $\mu\text{m}$  at  $1/e^2$  level for a Gaussian laser beam ( $M^2=1$ ), focused over scan field  
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.