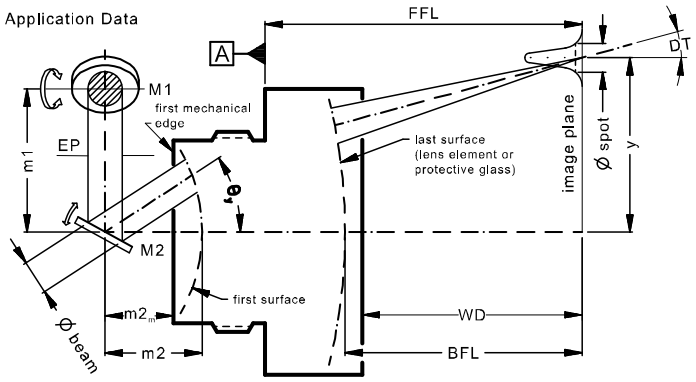
LINOS F-Theta-Ronar Lens
f = 254mm, 940-980nm



Part number	4401-526-000-21		
Design wavelength	λ	(nm)	980
Effective focal length	EFL	(mm)	252.7
Back focal length	BFL	(mm)	297.1
Working distance	WD	(mm)	294.2
Flange focal length	FFL	(mm)	342.9
Beam diameter 1/e² truncated	Øbeam	(mm)	20
Recommended mirror distance m1	m1	(mm)	25.6
Recommended mirror distance m2	m2	(mm)	27.5
Recommended mirror distance $m2_{mechanical}$	$m2_m$	(mm)	23.0
Scan angle	$\pm\theta_{x,y}$	(°)	±13.6
Scan area	2x * 2y	(mm^2)	120 x 120
Spot diameter	Øspot	(µm)	23
Telecentric error (maximum deviation)	DT	(°)	9.8
Total transmission @ 940 - 980nm	T	(%)	97
Focused back reflex positions from first surface		(mm)	14.3; 19.7; 52.8; 71.1; 71.8; 142.1; 451.0
Weight		(g)	1500
Protective glass	PG		4401-524-004-00

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

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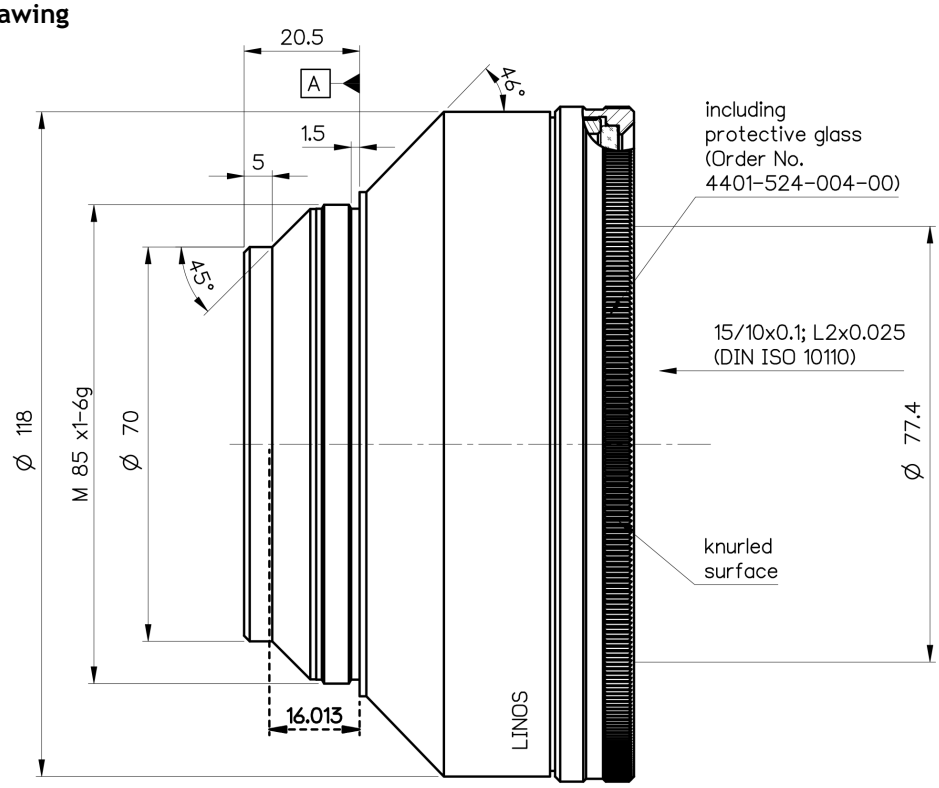
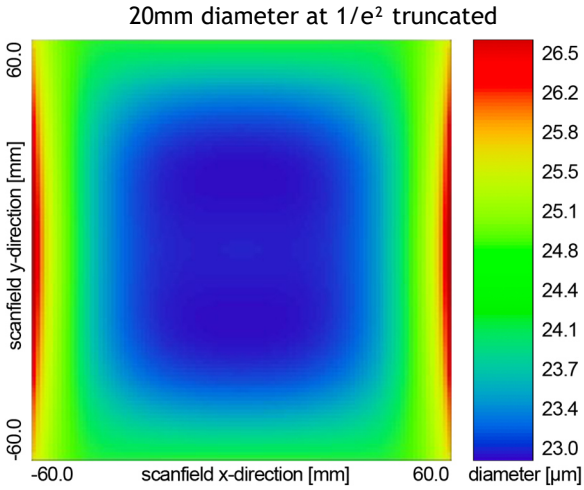
Mechanical drawing



Dimensions without tolerances are nominal values and illustration not to scale

Spot variation over scan field

Spot radius in µm at 1/e² 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.

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