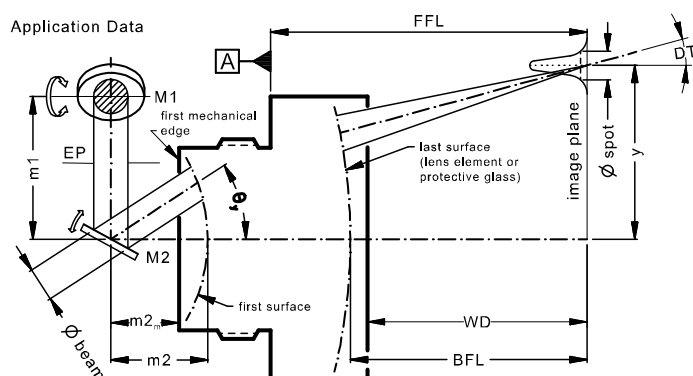


LINOS F-Theta-Ronar Lens

f = 250mm, 532nm



Part number	4401-289-000-20		
Design wavelength	λ	(nm)	532
Effective focal length	EFL	(mm)	250.2
Back focal length	BFL	(mm)	291.4
Working distance	WD	(mm)	288.5
Flange focal length	FFL	(mm)	337.1
Beam diameter 1/e ² truncated	Øbeam	(mm)	20.0
Recommended mirror distance m1	m1	(mm)	22.0
Recommended mirror distance m2	m2	(mm)	24.0
Recommended mirror distance m2 _{mechanical}	m2 _m	(mm)	19.5
Scan angle	$\pm\theta_{x,y}$	(°)	17.7
Scan area (edge length of scan field)	2x * 2y	(mm ²)	154 x 154
Spot diameter	Øspot	(µm)	12
Total transmission @ 532nm	T	(%)	> 96
LIDT coating @ 532nm, 6ns, 100Hz		(J/cm ²)	6
Focused back reflex positions from first surface		(mm)	14.0; 19.3; 52.8; 70.6; 71.3; 131.6; 314.2
Weight		(g)	1220
Protective glass	PG		4401-289-007-00

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

Technical drawing of the LNOS 118 dust collector, showing dimensions and details.

Main View Dimensions:

- Total Height: $\varnothing 118$
- Mounting Hole: M 85 x 1
- Inlet Diameter: $\varnothing 70$
- Inlet Length: 20.5
- Inlet Thickness: 5
- Inlet Angle: 45°
- Total Width: 69.2
- Base Diameter: $\varnothing 119.8$
- Base Length: 16.01

Details:

- Detail X (Top Flange):** Width 14, Diameter $\varnothing 119.8$.
- Detail Y (Base):** Width 6.7, Gap 0.5, Diameters $\varnothing 89.5$ and $\varnothing 83.6$.

Other Information:

- Brand: LNOS
- Base: knurled surface
- Accessories: 2 dust caps
- including protective glass (Order No. 4401-289-007-00)
- 15/10x0.1; L2x0.025 (DIN ISO 10110)

Notes

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The actual LIDT of the lens, as well as effects such as thermal focus shift, depend on the specific system setup and laser parameters. We recommend testing the respective optical components before use. We are happy to support and advise you in selecting the right F-Theta lens!