Iris Diaphragm | IDC/IH-30N

RoHS Catalog Code W4040

Iris diaphragm holders that can change the aperture size without changing the center of the aperture. Primarily used in the limited spaces of optical instruments to set an aperture size.

- Unmounted iris diaphgrams are ideal for OEM applications or for use when space is a premium.
- The IDC series's thinness allows optics to be placed closed to each other..
- The adjustment lever also functions as a lock to fix the aperture diameter.

Guide

- Iris diaphragm holders (IH-30/IH-R) which can be fixed to the post holder are also available. Reference C063
- Fixed pinholes (PA) with hole diameter 400µm or less are also available. Reference C061

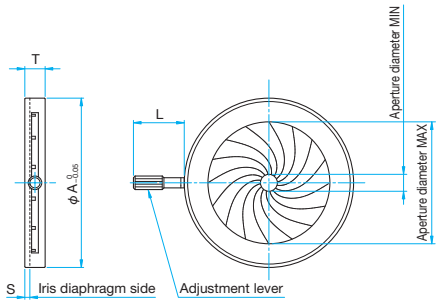
Attention

- Take care when adjusting the lever and handling the iris diaphragms.
- The iris diaphragm is a very delicate mechanism. Do not push or pull on the blades.
- These parts are not recommended for high power lasers. The heat from the lasers may cause the blades to seize. (recommended max power: CW 500mW or less, pulse 30mJ or less).
- The iris diaphragm does not have a scale. Use the iris diaphragm holder when a scale is needed.

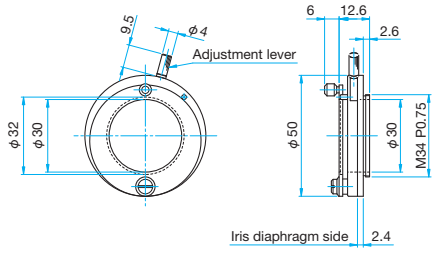
2D CAD 3D CAD

Outline Drawing

IDC



IH-30N



Part Number	ϕA [mm]	T [mm]	L [mm]	S [mm]
IDC-000	ϕ14.8	4.5	11	1.30
IDC-001	ϕ19.8	5	11	1.25
IDC-003	ϕ24	5	11	1.45
IDC-009	ϕ33	5.5	11	1.43
IDC-017	ϕ50	6	15	1.60
IDC-025	ϕ70	7.5	15	2.05

ϕ8 – ϕ50 — Primary material: Aluminum, Finish: Black Anodized

Part Number	Aperture Diameter MAX [mm]	Aperture Diameter MIN [mm]	Number of Blades [blades]	Weight [kg]
IDC-000	ϕ8	ϕ0.7	9	0.003
IDC-001	ϕ12	ϕ0.8	11	0.005
IDC-003	ϕ15	ϕ0.9	12	0.007
IDC-009	ϕ22	ϕ0.9	14	0.012
IDC-017	ϕ36	ϕ1.3	16	0.024
IDC-025	ϕ50	ϕ1.5	16	0.062

ϕ30 — Primary material: Aluminum, Finish: Black Anodized

Part Number	Aperture Diameter MAX [mm]	Aperture Diameter MIN [mm]	Number of Blades [blades]	Weight [kg]
IH-30N	ϕ30	ϕ1	10	0.03