

## SID-18 - Iris Diaphragm

Motorized iris diaphragms are used for example in the fields of opto-electronics, lasers and medical technology and create the possibility to fully remote control optical setups. This comes in handy especially in confined spaces like chambers, cabinets, enclosures or simply when automation is required. These precision opto-mechanical devices allow perfect dosing of the amount of light and the exact control of the projection and the size of the illuminated surface. Due to the used high quality materials the iris diaphragms keep their reliable functionality over many thousand open-close cycles, even in extreme conditions. The iris diaphragms can be optionally equipped with positioning sensors allowing for a closed-loop control of the aperture diameter. Furthermore, high vacuum compatible versions are also available as well as customized assemblies regarding aperture size, base materials and overall dimensions. A motorized iris diaphragm with a maximum opening of 18 mm.

| | Mechanical |
|---|---|
| Aperture [mm] | 2 ... 18 |
| Dimensions [mm] | 60 x 13 x 55 |
| Weight [g] | 105 |
| | **Closed-Loop** |
| Opening Resolution [µm] | < 1 |
| Opening Velocity [mm/s] | 6 |
| Uni-Directional Repeatability [µm] | 20 (unidirectional) |
| | **Options** |
| Material Options | Aluminum as standard: Titanium base (-TI) and others on request |
| Vacuum Options | HV (1E-6 mbar) |


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