

990-0704

CLOSED VARIABLE WHEEL ATTENUATOR



990-0704



991-0704 with a CCD camera

Close Variable Wheel Attenuator 991-0704 ideally suits for use with CCD cameras. Adapters 990-0000-01 or 990-0000-02 are used for connection.

- 4 wheels, each containing 3 filters & 1 empty space
- 4 fixed positions per wheel
- C-mount threads on both ends
- Connecting adapters available
- Stray light fully eliminated
- Variable height of the optical axis
- Three mounting holes

SPECIFICATIONS

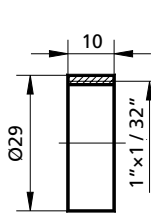
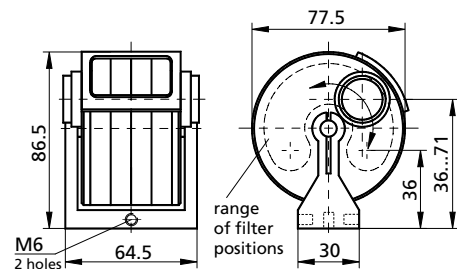
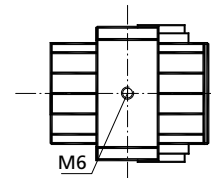
Diameter NDF	20 mm
Maximum thickness	3 mm
Non-parallel filters (inclined by 4°)	
Maximum deviation	0.09 mm
Clear aperture	Ø18 mm

Code	Weight, kg	Price, EUR
990-0704	0.55	549

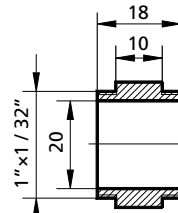
Close Variable Wheel Attenuator is used when it is necessary to fully eliminate the side background lighting when using photodetectors with high sensitivity (e.g. CCD, photomultiplier, etc.). You may order standard connecting adapters 990-0000-01 and 990-0000-02 separately. Custom adapters are available too.

Loosen the central axis and rotate the whole body of the filter to set the desired position of an optical axis at a height between 36–71 mm.

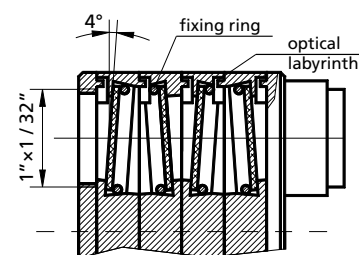
The base of the attenuator has M6 holes on 3 sides for mounting versatility.



990-0000-01



990-0000-02



SOME APPLICATIONS OF OPTICAL FILTERS

- In systems for laser beam diagnostics with CCD-cameras
- Measurement of laser power, pulse energy and pulse duration
- Spectroscopy
- We can offer a set of bandpass filters for mercury lamp, laser lines, and for your other needs

A choice of filters is available for our standard 4-wheel attenuators, allowing 256 relative positions of wheels, rendering 99 different transmission values, of which you can find a very close match to the desired value. Discrete filters permit to establish accurate optical density.

Also we can offer designs with 1, 2, 3 and more wheels.

Variable wheel attenuators come with a standard, most popular, set of filters listed in Table 1. The standard filters are made of neutral grey glass with spectral characteristics according to Figure 3.

Alternatively, attenuators (wheels and optics) can be manufactured according individual orders. We can also supply variable wheel attenuators without filters, which you can fit by yourself.