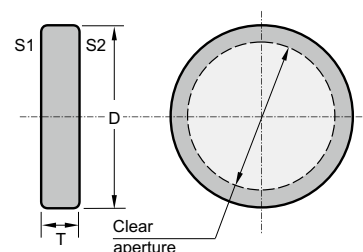


## POLARIZATION PLANE ROTATORS

### Features

- Made of crystalline quartz
- Intended to rotate a beam polarization plane strictly to an appropriate angle using the circular birefringent effect

As compared to a waveplate, a rotator has an intrinsic advantage, being independent of rotation around its own optical axis. It needs no adjustment, only to be installed normal to incident radiation. A polarization plane rotator is normally used for the specific wavelength. It is only slightly dependent on ambient temperature.



Polarization plane rotators for any wavelength from 200 to 2300 nm are available.

### Specifications

Material	Single crystal quartz
Optical axis	Normal to faces S1, S2 of rotator
Clear aperture	Ø17 mm
Ring mount outer diameter	D = 25.4 +0.0 / -0.12 mm
Mount thickness	T = 6–20 mm (depending on wavelength and rotation angle)
Surface quality	20 – 10 scratch & dig (MIL-PRF-13830B)
Wavefront distortion	$\lambda/10$
Parallelism	< 10 arcsec
AR coating	R < 0.2% both sides
Laser damage threshold	5 J/cm <sup>2</sup> , 10 nsec pulse, 1064 nm typical

Center wavelength, nm	Rotation angle of polarization plane, deg	Catalogue number	Price, EUR
1064	45	<a href="#">470-4644</a>	247
1064	90	<a href="#">470-4649</a>	247
1030	45	<a href="#">470-4904</a>	247
1030	90	<a href="#">470-4909</a>	247
800	45	<a href="#">470-4804</a>	224
800	90	<a href="#">470-4809</a>	224
780	45	<a href="#">470-4784</a>	224
780	90	<a href="#">470-4789</a>	224
633	45	<a href="#">470-4634</a>	224
633	90	<a href="#">470-4639</a>	224
532	45	<a href="#">470-4534</a>	224
532	90	<a href="#">470-4539</a>	224
515	45	<a href="#">470-4514</a>	224
515	90	<a href="#">470-4519</a>	224
413	45	<a href="#">470-4414</a>	224
413	90	<a href="#">470-4419</a>	224
400	45	<a href="#">470-4044</a>	224
400	90	<a href="#">470-4049</a>	224
355	45	<a href="#">470-4354</a>	224
355	90	<a href="#">470-4359</a>	224
343	45	<a href="#">470-4344</a>	224
343	90	<a href="#">470-4349</a>	224
266	45	<a href="#">470-4264</a>	282
266	90	<a href="#">470-4269</a>	282
257	45	<a href="#">470-4254</a>	282
257	90	<a href="#">470-4259</a>	282
244	45	<a href="#">470-4244</a>	282
244	90	<a href="#">470-4249</a>	282

Please contact us for other size or wavelengths requirements.

### Housing accessories

Kinematic Mirror and Beamsplitter Mount 840-0020

Find more at [EksmaOptics.com](http://EksmaOptics.com)



Kinematic Positioning Mount 840-0193

Find more at [EksmaOptics.com](http://EksmaOptics.com)

