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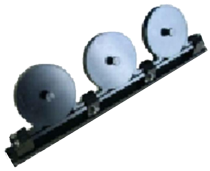
0108 Polarization Controller

PC1000



3 Paddle Mechanical Polarization Controller

3 paddle mechanical polarization controller is using fiber outside pressure and birefrigent effect theory. Its 3 Paddle is respectively equal λ /4、 λ /2、 λ /4 plate. When light wave enters λ /4 waveplate is transfer line polarization, then use λ /2 is adjust polarization direction, finally it enters to λ /4 waveplate and line polarization state is change to any polarization. Due to Birefrigent's delay effect is come from fiber cladding, roll fiber, and wavelength. It can generate all polarization change.

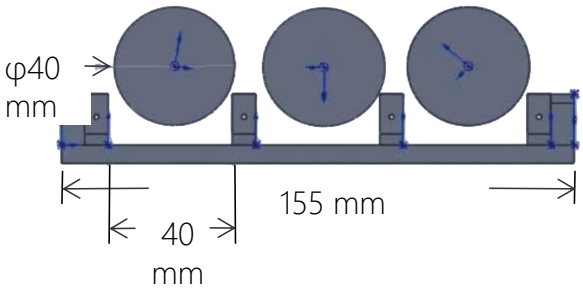
FEATURES

- Equal to λ/2、λ/4 Plate
- Adjust Any Polarization
- Low Insertion Loss
- Easy to Roll Fiber

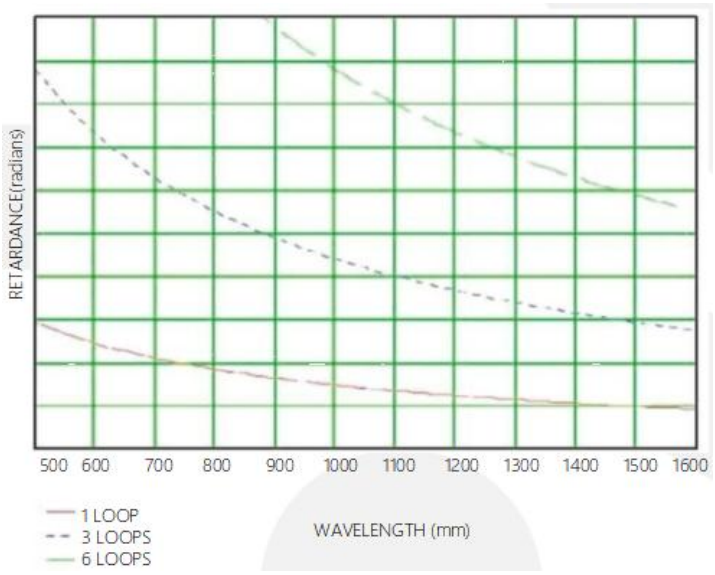
USE IN

- SM to PM Fiber System Application
- Measure PDL
- Fiber Laser
- Fiber Interferometer

MECHANICAL DRAWING



MEASUREMENT DATA



Polarization Controller's Single Paddle Delay and Wavelength, Roll relationship-(Measure unit: Fiber roll diameter 56mm, Fiber cladding diameter 125um)

For example:
When λ =1550 nm, Loop=1, its paddle is equal λ /2 waveplate
When λ =1550 nm, Loop=3, its paddle is equal 3 λ /2 waveplate

Order notes to our customers: **The default parameters are as follows. For special needs, please contact sales.**
1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.
2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.