

3 Paddle Mechanical Polarization Controller

Description:

3 Paddle Mechanical Polarization Controller is use fiber outside pressure and birefringent effect theory. Its 3 Paddle is respectively equal $\lambda/4$ 、 $\lambda/2$ 、 $\lambda/4$ plate. When light wave enters $\lambda/4$ waveplate is transfer line polarization, then use $\lambda/2$ is adjust Polarization direction, finally it enters to $\lambda/4$ waveplate and line polarization state is change to any polarization. Due to Birefringent's delay effect is come from fiber cladding, roll fiber, and wavelength. It can generate all polarization change.

Feature:

1. Equal to $\lambda/2$ 、 $\lambda/4$ plate
2. Adjust any polarization
3. Low Insertion Loss
4. Easy to roll fiber

Application

1. SM to PM fiber system application
2. Measure PDL
3. Fiber Laser
4. Fiber Interferometer

Specification



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

For example:

When $\lambda=1550\text{nm}$, Loop =1, its paddle is equal $\lambda/2$ waveplate

When $\lambda=1550\text{nm}$, Loop=3, its paddle is equal $3\lambda/2$ waveplate

Ordering Information

3PMPC=3 Paddle Mechanical Polarization Controller