

## Motorized In-line Polarization Controller

Compare with the traditional manual adjusting products , Optowaves' motorized in-line polarization controller has faster adjusting speed , higher accuracy, more compact size and electric driving . It could be widely used in automatic optical systems . By the special design , the twist range could cover  $\pm\pi$ . So it allows any arbitrary input polarization state to be converted to any desired output polarization state .



### Features

- Low insertion loss
- Low back reflection
- Low cost
- Compact Size

### Applications

- PMD compensation/ Emulation
- Polarization stabilization
- Polarization demultiplexing
- Fiber sensor
- Fiber laser
- Testing equipment

### Specifications

ITEM	SPECIFICATION
Operating Wavelength	780~900nm, 980~1140nm, 1260~1650nm or others
Insertion Loss	<0.05dB
Return Loss	>65dB
Extinction Ratio	>30dB
Twist Angle	$>\pm\pi$
Twist Speed	3 seconds for $2\pi$
Electrical Interface	Stepper motor drive signal (4-pin) 1 position limit sensor connection (2-pin)
Rated voltage	5 ~ 12 VDC
Rated current	120mA Typ.
Operating Temperature	0 to 50 °C
Storage Temperature	-20 to 60 °C
Operating Relative Humidity	10% to 85%
Fiber Type	HI 780, HI 1060, SMF-28e+ or others
Dimensions (L x W x H)	56 x 36 x 25 mm <sup>3</sup>

### Ordering Information

PC-□-□-□-□-□

Wavelength: 84=840nm, 106=1060nm, 131=1310nm or others

Fiber Length: 1=1.0m, 2=2.0m or others

Connector Type: FC/APC, FC/UPC, SC/APC, SC/UPC or others

Cable Type: 025:Φ0.25mm, 09:Φ0.9mm, 20: Φ2.0mm

Type: MI: Motorized In-line