

2-Paddle Motorized Polarization Controller

Optowaves' Motorized 2-Paddle Fiber Polarization Controllers use stress-induced birefringence to create two independent wave plates to alter the polarization of the transmitted light in single mode fiber. The two fractional wave plates are created by looping the fiber around two independent spools. For the polarization controllers preloaded with fiber, the paddles are configured to approximate two quarter-wave plates when used at the design wavelength.

Features

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

Applications

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



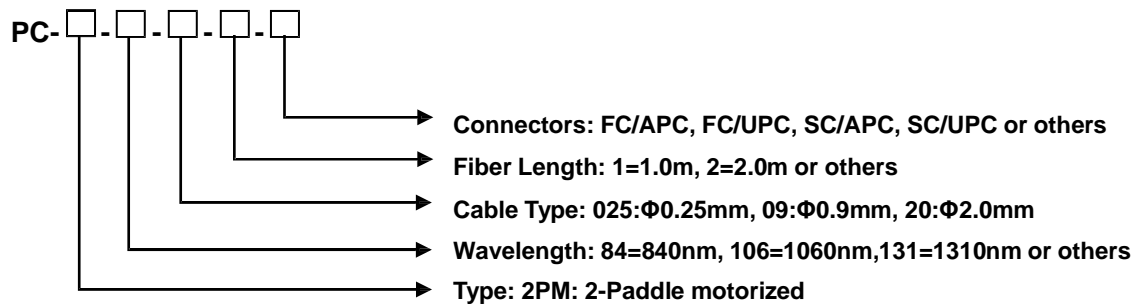
Specifications

ITEM	SPECIFICATION
Operating Wavelength	800~880nm standard, others specify
Insertion Loss	< 0.05dB
Return Loss	> 65dB
Extinction Ratio	> 35dB
Rotation Angle of Paddle	± 135°
Rotation Speed	270°/second (Typ.)
Accuracy	4800 steps /270°
Supply Power	24VDC / 1A(Drive board) or others
Electrical Interface	Stepper motor drive signal connection 1 position limit sensor connection
Operating Temperature	0 to 50 °C
Storage Temperature	-20 to 60 °C
Operating Relative Humidity	10% to 85%
Fiber Type	Corning HI780 standard, others specify
Dimensions (L x W x H)	151.5 x 50 x 45.9 mm ³

Note: Values are referenced without connectors.

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Ordering Information



OPTOWAVES, REFLECTORS, POLARIZATION CONTROLLERS

