## Phoenk

## All-Fiber Variable Phase shifter

## Product Overview

Phoenix Photonics variable phase shifter is a compact, simple to operate, all-fiber device for wideband operation. Applying a voltage to the pins gives a controlled modification of the phase shift through the device. The phase shifter provides phase shifts up to 50 ? over a broad wavelength range. There are no in-line interfaces allowing the full power handling capacity of the fiber to be utilized and offering a virtually zero excess loss and PDL.

The phase shifter is available in single mode (SM) or polarization maintaining (PM) fiber format.

## Features B Applications $^{2}$

## FEATURES

- All-fiber
- Simple current control
- $\quad>50$ phase shift
- Low insertion loss
- Low drive voltage


## APPLICATIONS:

- Interferometer stabilization
- Interferometric sensors
- Fiber phase control

Phase shifter in Mach-Zehnder


## Phoenk

| SPECIFICATION | Units |  |
| :--- | :---: | :---: |
| Wavelength range $^{1}$ | nm | $1300-1610$ |
| Insertion Loss $^{2}$ | dB | $<0.01$ |
| Total phase shift | radians | $>50>150$ or on request |
| Time constant（10\％to 90\％） | ms | 800 |
| Return Loss | dB | $>70$ |
| Drive Current | mA | $0-65$ |
| Maximum Voltage | V | $0-5$ |
| Operating Temperature Range | ${ }^{\circ} \mathrm{C}$ | -5 to 70 |
| Storage Temperature | ${ }^{\circ} \mathrm{C}$ | -40 to＋85 |
| Fiber type |  | SMF28，PANDA |
| Input \＆Output Fiber Lengths | mm | 1000 |

Specification Notes
1．Devices will operate over full wavelength range．Also available in other wavelength ranges please contact sales with requirement 2．Losses do not include connectors

Packaging Style
All dimensions are approximate and may vary slightly


Ordering Information
$\mathbf{V} \quad \mathbf{P} \mid \mathbf{S}$


Wavelength：
$15-1530-1610 \mathrm{~nm}$
$15-1530-1610 \mathrm{~nm}$
$14-1480-1530 \mathrm{~nm}$
$13-1280-1330 \mathrm{~nm}$


Input／output fiber：
SM－Single Mode
PM－Polarization Maintaining


Connectors：
0 －none
$1-\mathrm{FC} / \mathrm{SPC}$
2－FC／APC


Cable type
0 －none
1－900um loose tube

