All-Fiber Variable Phase shifter

FEATURES:
- All-fiber
- Simple current control
- >50\(\pi\) phase shift
- Low insertion loss
- Low drive voltage

APPLICATIONS:
- Interferometer stabilization
- Interferometric sensors
- Fiber phase control

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\(\pi\) over a broad wavelength range. There are no inline 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.
### SPECIFICATION:

<table>
<thead>
<tr>
<th>Units</th>
<th>Wavelength range $^1$</th>
<th>Insertion Loss $^2$</th>
<th>Total phase shift (radians)</th>
<th>Time constant (10% to 90%)</th>
<th>Return Loss</th>
<th>Drive Current</th>
<th>Maximum Voltage</th>
<th>Operating Temperature Range $^°C$</th>
<th>Storage Temperature $^°C$</th>
<th>Fiber type</th>
<th>Input &amp; Output Fiber Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>nm</td>
<td>1300 - 1610</td>
<td>&lt;0.01</td>
<td>&gt;50$\pi$ ($&gt;150\pi$ on request)</td>
<td>800</td>
<td>&gt;70</td>
<td>0 - 65</td>
<td>0 - 5</td>
<td>-5 to 70</td>
<td>-40 to +85</td>
<td>SMF28, PANDA</td>
<td>1000</td>
</tr>
</tbody>
</table>

### 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*

![Diagram of packaging style]

### ORDER CODE:

<table>
<thead>
<tr>
<th>V</th>
<th>P</th>
<th>S</th>
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</thead>
</table>
|   |   |   | Wavelength:  
|   |   |   | Input/output fiber:  
| SM – Single Mode | PM – Polarization Maintaining |
| 0 – none | 1 – FC/SPC | 2 – FC/APC |
|   |   |   | Connectors:  
| 0 – none | 1 – 900µm loose tube |