

## All-Fiber Polarization Scanner-Controller



### FEATURES:

- All-fiber
- Simple current control
- Full cycle of Poincare sphere
- Low insertion loss
- High return loss

### APPLICATIONS:

- Polarization control
- State of polarization scanning
- Component testing
- Sensor systems
- Optical fiber polarimetry

**Phoenix Photonics** state of polarization (SOP) scanner utilizes three variable all-fiber waveplates to provide full coverage of the Poincare sphere enabling conversion of any input SOP to any required output SOP. Designed to allow continuous variation of the output SOP the device can also be used for polarization control either within a feedback circuit or in open loop configuration.

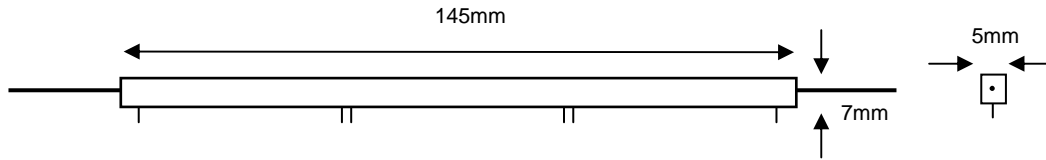
SPECIFICATION:	Units	
Wavelength range <sup>1</sup>	nm	1300-1610
Insertion Loss <sup>2</sup>	dB	<0.8
PMD	ps	<0.15
Return Loss	dB	>70
Maximum current <sup>3</sup>	mA	70
Maximum Voltage <sup>3</sup>	V	10
Scan rate <sup>4</sup>	deg./s	360
Operating Temperature Range	°C	-5 to 70
Storage Temperature	°C	-40 to +85
Fiber type		SMF28
Input & Output Fiber Lengths	mm	1000

Notes:

1. Devices will operate over full wavelength range, higher current is required at longer wavelengths to achieve switching.
2. Losses do not include connectors.
3. Maximum current and voltage for each section of the controller
4. Scan rate is the rate of polarization change for a cycle of the Poincare sphere for each section

**PACKAGING STYLE:**

All dimensions are approximate and may vary slightly



**ORDER CODE:**

