

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.

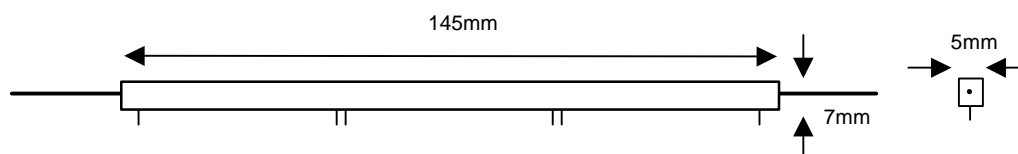
SPECIFICATION:	Units	
Wavelength range ¹	nm	1300-1610
Insertion loss ²	dB	<0.8
PMD	ps	<0.15
Return loss	dB	>70
Maximum current ³	mA	70
Maximum voltage ³	V	10
Scan rate ⁴	deg./s	360
Operating temperature range	°C	-5 to 70
Storage temperature	°C	-40 to +85
Fiber type		SMF28
Input & output fiber lengths	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:

P	S	C	-		-		-	

Wavelength:
 15 – 1530 – 1610 nm
 14 – 1480 – 1530 nm
 13 – 1280 – 1330 nm

Connectors:
 0 – none
 1 – FC/SPC
 2 – FC/APC

Cable type:
 0 – none
 1 – 900µm loose tube

Phoenix Photonics Limited, U6 Vulcan House, Restmor Way, Wallington, SM6 7AH, UK.

Web: www.phoenixphotonics.com Email: sales@phoenixphotonics.com

Tel: +44 (0) 20 8669 8559 Fax: +44 (0) 20 8669 7667

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