

## Benchtop Superluminescent Light Source

## Description

The Thorlabs Fiber Coupled SLD Source provides easy coupling and simple control of a COVEGA TQE Superluminescent Diode (SLD). Each system is equipped with a single FC/APC connector output. The drive electronics feature an independent, high-precision, low-noise, constant-current source and a temperature control unit. An intuitive LCD interface allows the user to view and set current and temperature parameters

THOR RISE
PRICE COUPLES R.P. SOUNCE

SLD
B. G2 nil 25, 80°C

APPRICE

APPRI

S5FC1021SXL

independently. The S5FC includes a universal power supply allowing operation over 100 to 240 VAC without the need for selecting the line voltage and is supplied with a US line cord as well as a standard European line cord. The fuse access is conveniently located on the rear panel. The SLD offered here is an indium phosphide (InP) device coupled to a SM fiber. For added safety, the system is designed to meet 3B laser class requirements.

SLDs are excellent high power broadband light sources for use as ASE Light Sources and in applications like Optical Coherence Tomography (OCT) Imaging Systems and Fiber Optic Gyroscopes (FOG).

## **Specifications**

<b>Optical Specifications</b>	Min	Тур	Max
Operating Current (mA)		700	900
Center Wavelength (nm)	1290		1330
ASE Power (mW)	13		
Optical Bandwidth (nm)	85		

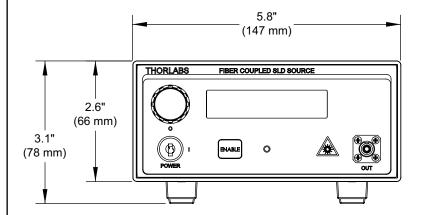
<b>Performance Specifications</b>	Value
Current Set Point Resolution	0.1 mA
Temperature Adjust Range	20.00 to 30.00 °C
Temp Set Point Resolution	±0.01 °C
Noise, (Typical Source Dependent)	<0.1%
Rise Time / Fall Time	1.4 µsec / 1.6 µsec
Modulation Input	0 - 5 V = 0 - Full Power
Modulation Bandwidth	250 kHz Full Depth of
	Modulation

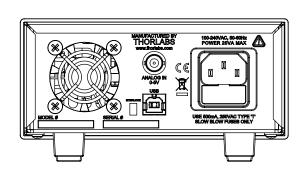
<b>General Specification</b>	Value	
AC Input	100 - 240 VAC, 50 - 60 Hz	
Input Power	20 VA Max	
Fuse Ratings	250 mA	
Fuse Type	IEC60127-2/III	
	(250 VA, Slow Blow Type 'T')	
Fuse Size	5 mm x 20 mm	
Dimensions (W x H x D)	5.8" x 11.4" x 2.6"	
	(146 mm x 290 mm x 66 mm)	
Weight	5 lbs (9.1 lbs Shipped Weight)	
Operating Temperature	15 to 35 °C	
Storage Temperature	0 to 50 °C	
Connections and Controls		
Interface Control	Optical Encoder with Pushbutton	
Enable Select	Keypad Switch with LED	
	Indicator	
Power On	Key Switch	
Fiber Ports	FC/PC	
Display	LCD, 16x2	
Input Power Connection	IEC Connector	
Modulation Input Connector	BNC (Referenced to Chassis)	
Interlock	100 mil Header	
Communications		
Communications Port	USB 2.0	
Com Connection	USB Type B connector	
Required Cable	2 m USB Type A to B Cable	
	(Replacement Item# USB-A-79)	

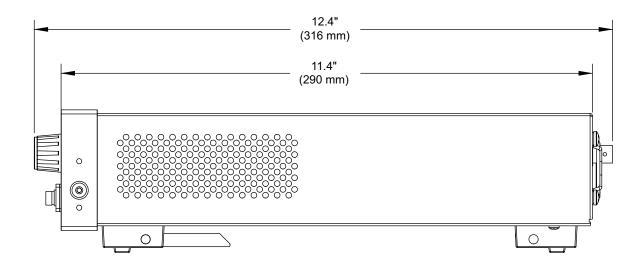


## **Drawings**









USA, Canada, & S. America Thorlabs, Inc. 435 Route 206 Newton, NJ 07860, USA Tel: 973-579-7227 Fax: 973-300-3600 www.thorlabs.com email: feedback@thorlabs.com Europe Thorlabs GmbH Hans-Böckler-Str. 6 85221 Dachau, Germany Tel: +49-(0)8131-5956-0 Fax: +49-(0)8131-5956-99 www.thorlabs.com email: Europe@thorlabs.com UK and Ireland Thorlabs LTD. 1 Saint Thomas Place, Ely Cambridgeshire CB7 4EX, GB Tel: +44 (0)1353-654440 Fax: +44 (0)1353-654444 www.thorlabs.com email: sales.uk@thorlabs.com Scandinavia
Thorlabs Sweden AB
Box 141 94
400 20 Göteborg, Sweden
Tel: +46-31-733-30-00
Fax: +46-31-703-40-45
www.thorlabs.com
email: scandinavia@thorlabs.com

Japan and Asia Thorlabs Japan Inc. 5-17-1, Ohtsuka Bunkyo-ku, Tokyo 112-0012, Japan Tel: +81-3-5977-8401 Fax: +81-3-5977-8402 www.thorlabs.jp email: sales@thorlabs.jp

