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**THORLABS**

## SR9HG - May 26, 2015

Item # SR9HG was discontinued on May 26, 2015. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

### ESD PROTECTION AND STRAIN RELIEF

- ▶ Laser Socket and 3 Feet of Shielded Cable
- ▶ Threads into LT Collimation Housing
- ▶ Includes Clamping and Reverse Protection Diodes to Suppress ESD



SR9B-DB9



SR9A



SR9 Cables are Compatible  
with our LT Collimation Housings

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## OVERVIEW

### Features

- Includes Laser Socket and 3 Feet of Shielded Cable
- Compatible with Laser Diode Collimation and Focusing Tubes and Laser Diode Cage Plate Mounts
- Includes Clamping and Reverse Protection Diodes to Suppress ESD
- Available with DB9 Connector for Mating Directly with LDC200C Series Laser Controllers



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SR9 Cables are Compatible with our LDH9-P2 30 mm Cage Collimation Mounts

Item #	Supported Pin Style	Max LD Forward Voltage
SR9A	A and E	3.3 V
SR9B	B and H	
SR9C	C and H	
SR9D	D	
SR9G	G	7.5 V
SR9HA	A and E	
SR9HB	B and H	
SR9HG	G	

The SR9 Series of strain relief and ESD protection products offer a convenient and safe means of connecting your Ø5.6 mm or Ø9 mm laser diode to our line of Laser Diode Controllers. Each model comes with a laser socket mounted to a small printed circuit board (PCB). The PCB contains a Schottky diode to clamp any reverse voltages that might appear across the laser diode, as well as a Zener diode to shunt any excessive voltages or ESD away from the diode.

Note: A -DB9 at the end of the part number indicates a DB9 connector. Otherwise, the end of the cable is terminated with bare wires.

Each model corresponds to one or more of the standard Pin Styles for laser diodes (see the diagram below) and is compatible with our Laser Diode Collimation and Focusing Tubes and Laser Diode Cage Plate Mounts. SR9 models are designed for laser diodes with forward voltages of 3.3 V, while SR9H models are designed for laser diodes with a maximum forward voltage of 7.5 V. Each strain relief is available with or without a DB9 connector. All -DB9 models are pin compatible with our Laser Diode Controllers.

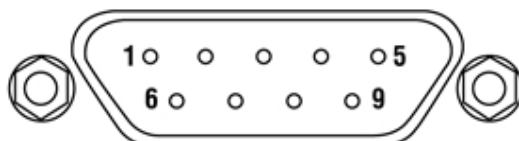
### Supported Pin Codes:



[Hide Pin Diagrams](#)

PIN DIAGRAMS

Laser Diode Connection  
D-type Male



Pin	Connection	Pin	Connection
1	Interlock*	6	Not Connected
2	Photodiode Cathode	7	Laser Diode Cathode (Polarity Anode Grounded)
3	Laser Diode Ground	8	Laser Diode Anode (Polarity Cathode Grounded)
4	Photodiode Anode		
5	Ground for Pin 1*	9	Not Connected

\*The Interlock must be shorted to the ground before the laser can be enabled.

Note: Wiring Connections at the Laser Driver Vary Depending Upon Diode Style

[Hide Part Numbers](#)

Part Number	Description	Price	Availability
SR9A	ESD Protection and Strain Relief, Pin Codes A and E, 3.3 V	\$49.00	Today
SR9A-DB9	ESD Protection and Strain Relief, Pin Codes A and E, 3.3 V, with DB9	\$52.00	Today
SR9B	ESD Protection and Strain Relief, Pin Codes B and H, 3.3 V	\$49.00	Today
SR9B-DB9	ESD Protection and Strain Relief, Pin Codes B and H, 3.3 V, with DB9	\$52.00	Today
SR9C	ESD Protection and Strain Relief, Pin Codes C and H, 3.3 V	\$49.00	Today
SR9C-DB9	ESD Protection and Strain Relief, Pin Codes C and H, 3.3 V, with DB9	\$52.00	Today
SR9D	ESD Protection and Strain Relief, Pin Code D, 3.3 V	\$49.00	3-5 Days
SR9D-DB9	ESD Protection and Strain Relief, Pin Code D, 3.3 V, with DB9	\$52.00	Today
SR9G	Customer Inspired!ESD Protection and Strain Relief, Pin Code G, 3.3 V	\$49.00	Today
SR9G-DB9	Customer Inspired!ESD Protection and Strain Relief, Pin Code G, 3.3 V, with DB9	\$52.00	Today
SR9HA	Customer Inspired!ESD Protection and Strain Relief, Pin Codes A and E, 7.5 V	\$49.00	Today
SR9HA-DB9	Customer Inspired!ESD Protection and Strain Relief, Pin Codes A and E, 7.5 V, with DB9	\$52.00	Today
SR9HB	Customer Inspired!ESD Protection and Strain Relief, Pin Codes B and H, 7.5 V	\$49.00	Today
SR9HB-DB9	Customer Inspired!ESD Protection and Strain Relief, Pin Codes B and H, 7.5 V, with DB9	\$52.00	Today
SR9HG	Customer Inspired!ESD Protection and Strain Relief, Pin Code G, 7.5 V	\$49.00	Today
SR9HG-DB9	Customer Inspired!ESD Protection and Strain Relief, Pin Code G, 7.5 V, with DB9	\$52.00	Today

Visit the *ESD Protection and Strain Relief* page for pricing and availability information:  
[http://www.thorlabs.com/newgrouppage9.cfm?objectgroup\\_id=2710](http://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=2710)