

Leica Shutter Control Cable for SOLA SE Light Engine

Set Up Instructions



Lumencor's Leica shutter control cable (29-10054 [1]) enables operation of the electronic shutter function of the SOLA SE light engine using the shutter button on the base of Leica microscopes. The following instructions describe installation of the cable and operation of the electronic shutter function [2].

1. Attach the 24 VDC/5.0 A power supply to the **input power** receptacle on the rear panel of the SOLA SE (Figure 1).
2. Attach the branch of the Leica shutter control cable with a BNC connector marked with a yellow collar band to the **3.3 V/25 mA DC out** port on the rear panel of the SOLA SE (Figure 1).
3. Attach the BNC connector on the other branch of the Leica shutter control cable to the **shutter in** port on the rear panel of the SOLA SE (Figure 1).
4. Attach the DB9 connector on the Leica shutter control cable to the Leica I²C Cable [3]. Connect the I²C cable to the Leica microscope "EXT" port. Ensure that a 3 mm liquid light guide is securely inserted in the light guide output port on the front panel of the SOLA SE and is safely directed away from lines of sight and unenclosed reflective surfaces.
5. Turn the power switch on the rear panel ON [4]. Turn the manual light output switch (above the light guide output port) ON [5]. Sequential presses of the the shutter button on the base of the Leica microscope will now alternately turn the light output from the SOLA SE ON and OFF.

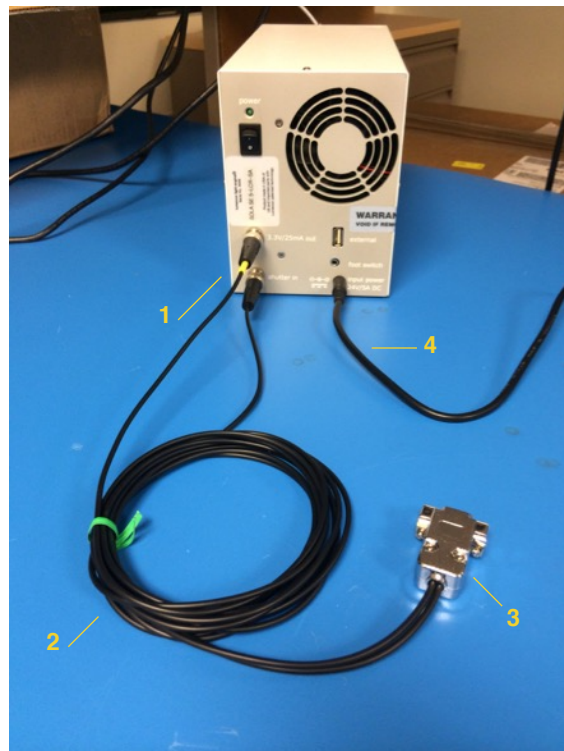


Figure 1
Leica shutter control cable set up with SOLA SE Light Engine. (1) BNC with yellow collar band connects to the **3.3 V/25 mA DC out** port. The other BNC connects to the **shutter in** port directly below. (2) Cable length: 7 feet (2.1 meters). (3) DB9 (F) connects to Leica I²C cable. (4) DC power supply input.

NOTES:

- [1] Leica part number 11525221.
- [2] Note that this interface does not provide access to the intensity control function of the SOLA SE. This functionality is accessed through USB or Bluetooth connections.
- [3] Leica part numbers 11500331 (for DM4000 – 6000B and DMI4000 – 6000B) and 11500336 (for DMi8).
- [4] The green indicator LED above the switch will illuminate. If it does not, check for proper insertion of the light guide (required to trip the interlock switch in the light guide output receptacle).
- [5] Opening the shutter alone does not initiate light output. SOLA SE light output must first be enabled either by the manual light output switch or via serial commands delivered via a USB cable or wireless Bluetooth connection.



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