

DCN-100 Drop Counter

Overview

The Drop Counter is an optical sensor that accurately records the number of drops passing through the optical slot.

Specifications:

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Infrared Source	940nm
Drip Rate	2 Seconds or slower
Excitation Voltage	+/-5V

Operating Instructions:

Setup:

1. Set up the equipment as shown below.



Using the drop counter:

1. Plug the IX-ELVIS board into the NI ELVIS platform.
2. Plug the power supply into the back of the NI ELVIS and turn on the switch next to the power supply input.
3. Locate the switch on the top right hand side of the IX-ELVIS and switch on.
4. Connect the NI ELVIS platform to the computer via a USB cable.
5. Plug the DCN-100 into one of the mini din channels on the IX-ELVIS board.
6. Open the recording software and ensure the correct channel is selected. Set the threshold to $\pm 2V$
7. Set a slow drip rate, about 2 seconds per drop or slower.
8. Start recording. Each drop will be represented by a pulse.

*Note: The signal may be inverted when using the myDAQ setup.

Intended Usage

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