

Product Code . ILS-PLE-11726

Timer and Photogates



Description

Stopwatch Mode: Measures in seconds and is accurate to one hundredth (0.01) of a second from 0.01 to 59.99 seconds. After one minute, the display switches to minutes: seconds.

Frequency Mode: Measures the frequency of anything that breaks the light beams in the Photogates regularly, or the frequency of signals applied to the inputs.

Interval Mode: Uses one or two Photogates to electronically collect times from up to 3 different locations. Photogate A, Photogate B, and/or the time between the two allowing for experiments on speed or acceleration.

Count Mode: Counts whenever anything breaks the light beam, or sends a signal. There are two independent counters; each can each count up to 19,999.

Period Mode: Measures the period of repetitive motions to 0.0001 seconds accuracy




Specifications

Time Reference	6.144 MHz quartz crystal
	0.65 microsecond internal resolution
	0.0001 second display resolution
Input Voltage	9 V DC/500 mA Minimum (Center Tip positive).

Sensor Input	Two TTL falling edge triggered inputs using 1394 connectors.
Interval	<p>Gate A, Gate B, and Interval A-to-B photogate timing with:</p> <p>0.0001 s resolution from 0.0000 to 99.9999 s</p> <p>0.001 s resolution from 100.000 to 999.999 s</p> <p>0.01 s resolution from 1000.00 to 9999.99 s</p> <p>0.1 s resolution from 10000.0 to 99999.9 s</p>
Frequency	<p>Dual channel plus frequency differences (A, B, A-B, B-A) with:</p> <p>0.0001 Hz resolution from 0.0000 to 99.9999 Hz</p> <p>0.001 Hz resolution from 100.000 to 999.999 Hz</p> <p>0.01 Hz resolution from 1000.00 to 9999.99 Hz</p> <p>0.1 Hz resolution from 10000.0 to 99999.9 Hz</p>
Period	<p>Dual channel (A or B) period measurement with:</p> <p>0.0001 s resolution from 0.0000 to 99.9999 s</p> <p>0.001 s resolution from 100.000 to 999.999 s</p> <p>0.01 s resolution from 1000.00 to 9999.99 s</p> <p>0.1 s resolution from 10000.0 to 99999.9 s</p>
Stopwatch	0.01 s resolution to 999999.99 s
Count	Dual channel (A or B) counters to 999999 each channel
FCC Compliance	This equipment has been tested and found to comply with the limits for a class A digital device pursuant to part 15 of the FCC rules. These rules are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates and uses radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Working Time (Battery)	

	>40 hours
Battery Specs	Rechargeable lithium battery: 1800 mAh, 3.7v, 6.66 watt hours
Power Consumption	0.015 W without photogate, 0.25 W with two photogates

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