

# DT-311A Heavy Duty Web Inspection Strobe Light



## Exceptional ruggedness and reliability.

Shimpo dual function stroboscopes provide the illusion of "stopped motion" by adjusting the strobe's flash rate, equipment and printing appear to be standing still or in slow motion. Our strobes also measure rotational RPM or reciprocating (strokes per minute) speed with the same precision as an electronic digital tachometer.

Ideally suited for printing inspection, motion analysis, preventive maintenance and speed measurement of repetitive motion, our strobes provide timely data in vibrating parts, leaks, spray patterns and a variety of industrial and scientific operations.

Don't be fooled... while the DT-311A stroboscope is extremely easy to operate via its lightweight and compact design, its rugged metal construction provides outstanding durability in the harshest environments.

## SPECIFICATION

FLASHING RANGE	40.0 - 35,000 fpm (flashes per minute)
ACCURACY	+/- 0.01% of reading
RESOLUTION	0.1 fpm: 40.0 - 5,000 fpm / 0.2 fpm: 5,001 - 8,000 fpm / 0.5 fpm: 8,001 -10,000 fpm / 1 fpm: 10,001 -35,000 fpm
PHASE SHIFT USE	+/- push buttons (360° in 6 seconds)
DISPLAY UPDATE TIME	0.2 seconds approx.
OUTPUT SIGNAL	Synchronous, 400 µsec. Pulse output, 0 to + 12 VDC amplitude (approx.) 4.7 K impedance
RATE MULTIPLIER/DIVIDER	Multiply by 2, divide by 2
FLASHING RANGE	0.0 to 35,000 fpm
EXTERNAL MODE ACCURACY	+/- 0.01%, +/- 1 digit
PHASE SHIFT	0° to 359° with 1° resolution
DELAY TIME	0 to 2,000 µsec from 40 - 10,000 fpm
EXTERNAL TRIGGER INPUT SIGNAL	LO level: 0 - 0.8 VDC, HI level: 2.5 - 12 VDC or open collector (NPN), pulse width 50 µsec min
INPUT IMPEDANCE	4.7 K to 12 V / 6.8 K to 0 V
DISPLAY	5 digits, 0.4" (10 mm) high, LED
FLASH DURATION	10 - 40 µsec
SENSOR POWER SUPPLY	12 VDC (40 mA)
LOW BATTERY INDICATOR	N/A
POWER REQUIREMENT	115 VAC or 220 VAC +/- 10% 60/50 Hz, 30 VA (specify voltage)
OPERATING TEMPERATURE	32° - 104°F (0° - 40° C)
WEIGHT	2.6 lb (1.2 kg)
DIMENSIONS	7.28" L x 4.72" W x 4.72" H (185 mm x 120 mm x 120 mm)
WARRANTY	1 year

## FEATURE:

- Durable extruded aluminum construction
- Highly accurate (+/- 0.01% of reading)
- Phase shift (timing, advance or delay in degrees or msec)
- High flash rate (up to 35,000 FPM)
- Microprocessor-controlled
- External trigger
- Synchronous output
- Flash timer control
- Continuous duty cycle
- Highly polished focused reflector
- Manual flash controller knob
- ¼ x 20 mounting hole



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