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NICOL SCALES & MEASUREMENT

AN ISO/IEC 17025:2017
ACCREDITED CALIBRATION COMPANY

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NICOL SCALES & MEASUREMENT IS AN ISO ACCREDITED CALIBRATION COMPANY THAT HAS PROVIDED CALIBRATION, REPAIR AND SALES OF ALL TYPES OF WEIGHING AND MEASUREMENT PRODUCTS SINCE 1931.

SHIMPO INSTRUMENTS

Measuring Quality

DT-3011N Heavy Duty, AC Powered Stroboscope

The DT-3011N heavy duty, AC powered stroboscope provides the illusion of "stopped motion". By adjusting the flash rate, systems in motion appear to be standing still or in slow motion. These strobes can measure rotational (RPM) or reciprocating (strokes per minute) speeds with the same precision as an electronic digital tachometer. Ideally suited for printing inspection, motion analysis, preventive maintenance and speed measurement of repetitive motion, DT-3011N strobes provide timely data on vibrating parts, leaks, spray patterns and a variety of industrial and scientific operations. The DT-3011N stroboscope is extremely easy to maneuver and operate via its lightweight, compact design combined with a simplified user interface. Its rugged metal construction provides unequaled reliability in the harshest environments.



Features

- *Aluminum construction provides exceptional durability*
- *High polish and focused reflector eliminates "blind" viewing areas*
- *External trigger allows unit to be automatically synchronized with equipment*
- *Light emission auto-off timer (1 - 120 min.) conserves flash tube life*
- *Phase shift, set in degrees or ms, allows visual analysis of rotating/reciprocating objects*
- *Save up to 5 user configurations to enable switching quickly between machinery*
- *Synchronous output enables master strobe to drive the flash rate of connected strobes*
- *Easy tri-pod or permanent mounting with integral mounting thread*

Easy Operation Control



POWER	Turns power ON/OFF
DIAL	(Lamp Power) Turn clockwise or counterclockwise to change the emission frequency and some setting values. Press and hold the center to turn the lamp ON/OFF.
MODE	Press this to switch the LED display as follows: Flashes Per Minute mode (FPM mode) > Phase Shift mode (PHA mode DEG = delay angle) > Phase Shift mode (PHA mode ms = delay time)
LOAD	Press to load the saved settings. Also Press and hold to save the current display and mode settings.
SIG	Select Internal or External parameter modes. Internal flash emission changes with DIAL; External flash rate is synchronized with external sensor signal
UNIT	Each press switches the delay type as follows: delay angle (DEG) > delay time (ms)
x2	Press in INT to double the current set emission count (frequency).
÷2	Press in INT to halve the current set emission count (frequency).

SEALS USA, Inc.

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DT-3011N Specifications

Flashing Range	30.0 - 35,000 fpm (flashes per minute)
Accuracy	±0.05 % of reading
Resolution	30.0 to 5000.0 : 0.1 fpm; 5001.0 to 8000.0 to 0.2 fpm; 8001.0 to 10000.0 : 0.5 fpm; 10001.0 to 35000.0 : 1.0 fpm
Lux Rating	8" (20 cm) Distance = 1950 lx @ 1500 fpm, 2000 lx @ 6000 fpm with 8" (203 mm) irradiation diameter. 20" (50 cm) Distance = 725 lx @ 1500 fpm, 850 lx @ 6000 fpm with 12" (305 mm) irradiation diameter.
Lamp Lifetime	Typ.1200 hours at 1500 fpm
Display	6-digit, 7 segment red LED
Flash Duration	20 μsec
Phase Shift	0 to 359˚ set by 0.1˚ resolution; 0.00 to 999.99 msec set by 0.01 msec resolution, 1000.0 to 1994.4 msec set by 0.1 msec resolution
Power Requirement	100 to 115 VAC +/-10% 50/60 Hz; -EU: 200 to 240 VAC 50/60 Hz
Input Signal	H level: 2.5 – 12 V; L level: 0 – 0.5 V Pulse width : 50 μs or more Input impedance : 10 kΩ or more
Input Signal Range	27 to 35,020 fpm (1 fpm resolution) with available delay setting in degree or msec
Sensor Power Supply	DC 12 VDC 40 mA
Temperature Limits	32 to 104°F (0 to 40°C)
Humidity Limits	35 to 85% RH (Non- condensing)
Product Weight	2.6 lb (1.2 kg)
Package Weight	5.7 lb (2.6 kg)
Approvals	RoHS
Warranty	1-Year
Included Accessories	Input Signal Connector

Ordering Details

DT-3011N	Heavy duty, Xenon stroboscope, AC powered
DT-3011N-EU	Same as DT-3011N except with 230V power and Euro Plug
NIST-STROBE	NIST traceable certificate for digital stroboscopes, includes data

Accessories

SG-300	Rubber strobe guard
CABLE-361-10FT	Daisy chain syncing connection cable for DT-3011N stroboscopes, 10 ft length



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