

DT-3011J Stroboscope

DT-3011J NEMA 4X Stroboscope for Harsh Wet Work Areas

Where powerful illumination and rugged speed measuring accuracy is required for the textile industry, the DT-3011J will perform where other stroboscopes will not. The DT-3011J is used to set injection timing, injection pressure, timing of shedding and weft running time of weaving machinery. Units combine rugged NEMA 4X (IP65) housing with high performance accuracy, special phase shifting, with shock absorbing components and top mounted handle, allows the equipment operator maximum flexibility when setting the timing of weaving machinery.



Easy Operation Control

Rotary Dial & Lamp Power

Push to turn on/off lamp
Turn to adjust settings



Power Switch

Signal Input & Power Connection

MODE

Internal Signal "MODE" (Flash)

- Flashes Per Minute mode (FPM mode)
- Phase Shift mode (PHA mode DEG = delay angle)
- Phase Shift mode (PHA mode ms = delay time)

SIG

Internal / External Signal

Select Internal or External Operation modes.
INT: Internal frequency emission set by rotary dial
EXT: External emission synchronized by external sensor signal input

DIV

Angle division "DIV"

Permits special flash interval ratio settings: in external operation: 1/1, 1/2, 1/3, 1/4, and 2/4 flashes per rotation

ZERO

"ZERO" Setting Control

Easy, single touch re-zeroing at any angle in external operation

SHIFT

Phase "SHIFT"

Single touch in external operation: changes flash timing, 0-359 degrees

DT-3011J Specifications

Flashing Range	200 to 2500 fpm (flashes per minute)
Accuracy	±0.02 % of reading
Resolution	1 fpm
Flash Duration	20 μ s
Phase Shift (Internal Emission Setting)	Angle: 0 to 359°, available to set by 1° increments Time: 0.0 to 299.2 ms, available to set by 0.1 ms increments
External Trigger Input Signal	H level: 5 to 24 V L level: 0 to 1 V Pulse width: 2 ms or more
Input Impedance	47 k Ω or more
Display	6 digits, 0.28" (7mm) high, red LED
Flashtube Power/Life	Xenon, 15 W max. (100 million flashes)
Lux Rating	8" (20 cm) Distance = 2750 lx @ 1500 fpm, 3200 lx @ 2500 fpm with 5.9" (150 mm) irradiation diameter. 20" (50 cm) Distance = 875 lx @ 1500 fpm, 1025 lx @ 2500 fpm with 11.8" (300 mm) irradiation diameter.
Power Requirement	AC 100 to 115V 50/60Hz
Operating Temperature	32° – 104°F (0 – 40°C)
Dimensions	8.4" L x 5.7" W x 5.7" H (213 mm x 145 mm x 144 mm)
Operating Humidity	35 to 85% (Non- condensing)
Product Weight	4 lbs (1.8 kg)
Package Weight	7.9 lbs (3.6 kg)
Power Cable	Approx. 9 m (29.5') with Two Banana clips red/black Red: External pulse input; Black: GND
Included Accessories	Handle, rubber strobe guard, cable
Warranty	2-year
Certification	RoHS; NIST available

Ordering Details

DT-3011J	Harsh Environment NEMA 4X (IP65) Stroboscope with Included power 19.68' (6m) cable, rubber strobe guard with handle.
NIST-STROBE	NIST traceable certificate with data

Accessories

FLASHTUBE3011J	Replacement flash tube for DT-3011J
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DT-3011J includes front & rear rubber guard protectors.

Application:
Inspection and timing of shedding and weft running time

