

### Series ST-329BL LED Stroboscope

**Series ST-329BL is a permanent mount black-light stroboscope** array utilizing super bright, CREE high powered LED lamps. The ST-329BL's LED array provides a bright, stable black light over a wide measurement range with a lifetime far exceeding xenon lit stroboscopes. The ST-329BL arrays are available in several standard sizes from 9.25" (235 mm) to 65" (1650 mm) in length. Custom sizes are available upon request. The arrays are easily mountable on production equipment. An optional mounting adapter kit is available to aid in array installation. A separate control enclosure is connected with 6.5' (2 m) cable to the array. Operation is simple with the 8 button keypad and large, backlit LCD display. Phase shift, flash duration, plus flash rate are all quickly adjustable via the control. The unit can work off user programmed flash frequency or from a remote sensor's signal which will automatically adjust to corresponding process fluctuations.

The ST-329BL is designed for speed and frequency measurements in the printing, packaging, textile, automotive, cable, medical industries in various applications.



**ST-329BL-4 LED Array shown with  
Optional Mounting Kit**

#### Features

- *Wide Flash Range 60 – 120,000 Flashes/min. can be adjusted to meet almost any high-speed application*
- *Long-life LED operation*
- *Adjustable Flash Pulse duration achieves sharper images for detailed inspection*
- *Phase Shift Advances or retards flash timing for viewing gear teeth, cutting surfaces, repeats or "drifting" images*
- *Input sensor trigger function allows process machinery to control flash rate*
- *Delay time adjustment combined with leading or trailing edge activation simplifies process set-up when using external signal input*
- *Ten standard size lengths from 9" (235 mm) to 65" (1650 mm). Custom options available.*
- *x2 and 1/2 keys for large adjustment rate change or +/- for fine tuning*



**ST-329 Operation  
Control Enclosure**

## ST-329BL Specifications

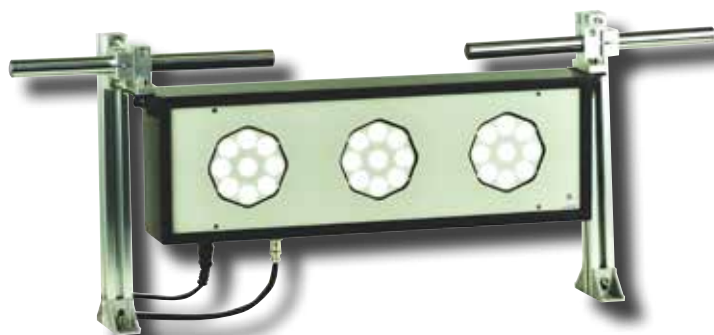
|                          |                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Flash Rate Range         | 60 to 120,000 FPM                                                                                                              |
| Accuracy                 | 0.01%±1 digit of F.S. @ 77° F (25°C)                                                                                           |
| Lamp Lifetime            | Approximately 3~5 years depending on usage.                                                                                    |
| Display                  | Backlit LCD                                                                                                                    |
| Resolution               | 60 ~12,000 FPM = 0.1 FPM; 12,001~120,000 FPM = 1 FPM                                                                           |
| Flash Duration           | 0.1°- 2.5°                                                                                                                     |
| Phase Shift              | 0-359°                                                                                                                         |
| Power Requirement        | 100-120 VAC; Optional 220-260 V                                                                                                |
| Input Signal             | 12 V Pulse Input; 3 Pin M-12 connection                                                                                        |
| Input Signal Range       | 60-120,000 FPM                                                                                                                 |
| Input Pulse Width        | Over 50 $\mu$ s                                                                                                                |
| Input Signal Flash Delay | 0-999 ms; 0-359°                                                                                                               |
| Temperature Limits       | 32-95°F (0-35°C)                                                                                                               |
| Humidity Limits          | 35 to 85% RH                                                                                                                   |
| Enclosure                | Control - ABS; Array - ABS window & aluminum frame                                                                             |
| Mounting                 | Control: Magnetic mount to include bracket; Array: Flanges for use with 6 mm bolts. Mounting bracket kit available separately. |
| Enclosure Rating         | IP65 - Control & Array                                                                                                         |
| Dimensions               | Length (See model chart) x 6" (153 mm) x 3.5" (90 mm)                                                                          |
| Approvals                | CE                                                                                                                             |
| Warranty                 | 1 year                                                                                                                         |
| Included Accessories     | 6.5' (2 m) AC power cord, 9.8' (3 m) control/array connection cable (5 pin)                                                    |

## Ordering Details

| Model      | Length         | # LED Groups | # LED's |
|------------|----------------|--------------|---------|
| ST-329BL-0 | 9.25" (235 mm) | 2            | 18      |
| ST-329BL-1 | 20" (500 mm)   | 3            | 27      |
| ST-329BL-2 | 24" (600 mm)   | 4            | 36      |
| ST-329BL-3 | 31" (800 mm)   | 6            | 54      |
| ST-329BL-4 | 39" (1000 mm)  | 7            | 63      |
| ST-329BL-5 | 39" (1000 mm)  | 8            | 72      |
| ST-329BL-6 | 47" (1200 mm)  | 9            | 81      |
| ST-329BL-7 | 47" (1200 mm)  | 10           | 90      |
| ST-329BL-8 | 63" (1600 mm)  | 11           | 99      |
| ST-329BL-9 | 65" (1650 mm)  | 12           | 108     |

## Accessories

| Model  | Description                           |
|--------|---------------------------------------|
| MK-320 | Mounting Kit for ST-329 Strobe Arrays |



ST-329BL-1 LED Array shown with  
Optional Mounting Kit