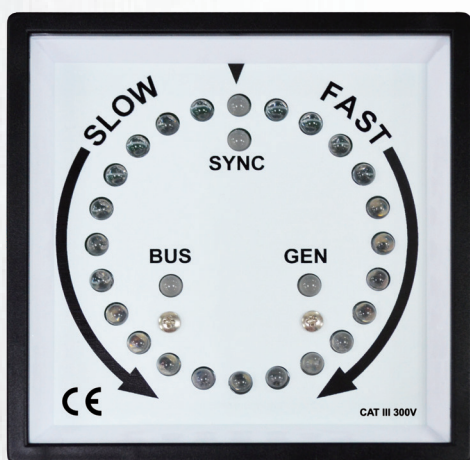


# LED SYNCHROSCOPE



UL File No. E236904

## OPERATION PRINCIPLE

- Initially, SYNC, BUS and GEN LED's are lit Red and the outer ring will show a single Red traveling LED. When voltage and phase angle are unmatched the outer ring LED rotates according to the system phase difference.

- When the BUS voltage is at  $\pm 10\%$  of nominal system voltage, the BUS LED will change from Red to Green signifying proper BUS voltage has been established. When the GEN voltage is at  $\pm 10\%$  of nominal system voltage the GEN LED will change from Red to Green signifying proper GEN voltage has been established.

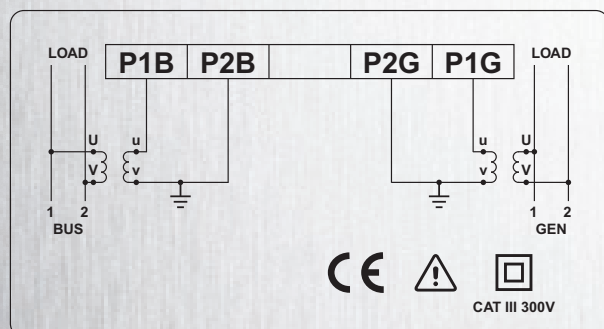
- Finally, once all system voltages match and the systems are synchronized, the SYNC LED will change from Red to Green. All LED's are now Green when the systems are synchronized.

- **Input Voltage :**  
110V AC, 120V AC, 220V AC, 230V AC or 240V AC.
- **Square shape panel 96 x 96mm**
- **3 bi-colored LED indicators for "SYNC", "GEN" and "BUS"**
- **24 LEDs in a circle display the phase angle and the frequency differences between 2 networks**
- **360° indication**
- **12 o'clock position LED is bi-colored**
- **PC window, ABS resin frame, PC case**

## SPECIFICATIONS

	LS-96 SYNC (110V)	LS-96 SYNC (120V)	LS-96 SYNC (220V)	LS-96 SYNC (230V)	LS-96 SYNC (240V)
Nominal Input Voltage	110V AC	120V AC	220V AC	230V AC	240V AC
Overload	1.25 × Nominal voltage				
Frequency Range	35~70Hz				
Scale	SLOW / FAST				
Pointer LED	15 degrees / LED				
BUS LED (Bi-coloured)	Green : 100V~121V AC	Green : 108V~132V AC	Green : 198V~242V AC	Green : 207V~253V AC	Green : 216V~264V AC
	Red : <100V or >121V AC	Red : <108V or >132V AC	Red : <198V or >242V AC	Red : <207V or >253V AC	Red : <216V or >264V AC
GEN LED (Bi-coloured)	Green : 100V~121V AC	Green : 108V~132V AC	Green : 198V~242V AC	Green : 207V~253V AC	Green : 216V~264V AC
	Red : <100V or >121V AC	Red : <108V or >132V AC	Red : <198V or >242V AC	Red : <207V or >253V AC	Red : <216V or >264V AC
SYNC LED (Bi-coloured)	Green : "GEN" and "BUS" are synchronized				
	Red : "GEN" and "BUS" are not synchronized				

## WIRING DIAGRAM



## DIMENSIONS

