



Model HLS-110A

Analog Synchroscope



OPERATION PRINCIPLE

- A synchroscope indicates the synchronization point (scale center) when the frequencies and the phases at a generator side and a bus line side are matched.
- If the frequencies of both side are equal, the position at which the needle is stationary indicates the phase difference between the two.
- When the generator side (starting side) frequency is f_g and the bus line side (operating side) frequency is f_b , the direction of rotation of the needle is as follows:
 - When $f_g = f_b$ The needle is stopped.
 - When $f_g > f_b$ The needle rotates in the FAST direction
 - When $f_g < f_b$ The needle rotates in the SLOW direction

FEATURES

- Input voltage: 120V AC or 240V AC
- Standard 4.5 inch switchboard
- Front panel mount
- 360° indication
- Metal case

SPECIFICATIONS

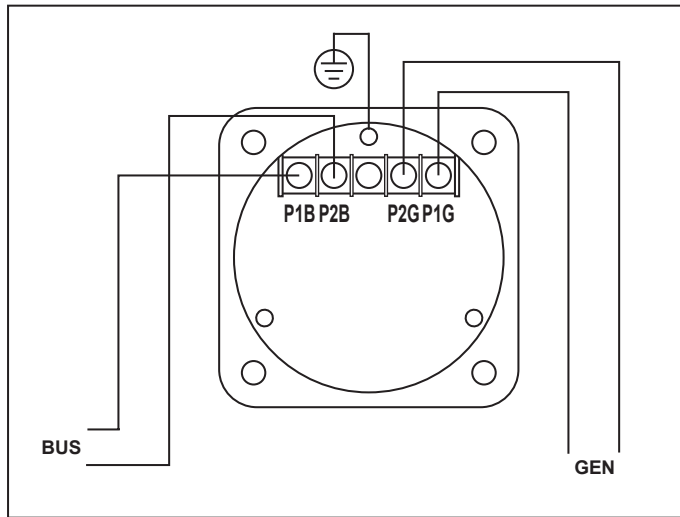
	LS-110A SYNC (120V)	LS-110A SYNC (240V)
Nominal Input Voltage	120V AC	240V AC
Frequency Range	50Hz or 60Hz	
Scale	SLOW / FAST	
Indication	Moring pointer	
Angle of rotation	360°	



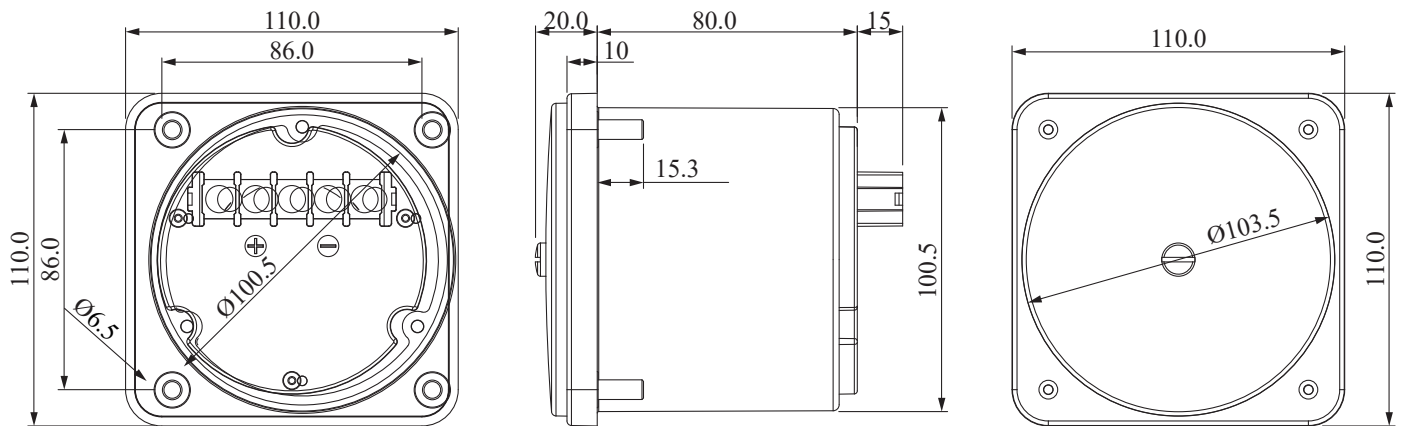
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WIRING DIAGRAM



DIMENSIONS



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