



CROMPTON INSTRUMENTS LED SYNCHROSCOPES

APPLICABLE UP TO 480 V



APPLICATIONS

Switchgear Panels

RELEVANT STANDARDS AND TEST REPORTS

• IEC 61010

CLEARLY INDICATES SYNCHRONISING
STATE WITH RELAY OUTPUT AND REAL-TIME
FEEDBACK FOR BETTER MONITORING

KEY FEATURES

- Clear Synchronising indication
- Relay output for remote indication

TE Connectivity's (TE) Crompton Instruments LED Synchroscopes measure and display the frequency difference of two power sources. Monitoring the display allows the user to connect two synchronized power systems.

The LED indication gives real-time feedback on the synchronisation state. When the synchronised state is achieved, the indicator stays in the synchronising position.

The LED indication gives real-time feedback on the synchronisation state with relay output for systems integration. Dead bus monitoring is also available, as an option, combined with the Voltage and phase monitoring.

ORDERING INFORMATION

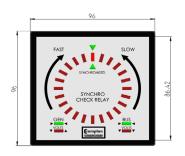
Part Numbers	Model	Voltage	Operation	
ES7318-000	244-14HG-L-01	100/120 V (110 V nominal)		
ES8092-000	244-14HG-M-01	220/240 V (230 V nominal)	Synchro check relay, Voltage Difference and Dead Bus	
ES8091-000	244-14HG-H-01	380/480 V (430 V nominal)		
ES8089-000	244-14GG-L-01	100/120 V (110 V nominal)		
ES8090-000	244-14GG-M-01	220/240 V (230 V nominal)	Synchro check relay, and Voltage Difference	
ES8088-000	244-14GG-H-01	380/480 V (430 V nominal)		

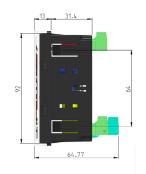
COMPATIBLE PARTS

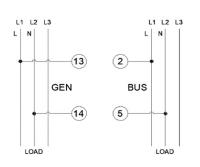
Model	Part Number	Case Style	Voltage	Frequency
007-14A-PRAE-C7	ES3830-000	ANSI 4.5"	120 V	50/60 Hz

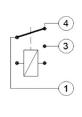


CUSTOMER DRAWING & CONNECTION DIAGRAM









TECHNICAL SPECIFICATIONS

Parameters				
Nominal Voltage	±10% of range			
Nominal Frequency	45 / 65 Hz			
Operating Position	Panel Mounted (Vertical)			
Accuracy	1%			
Overload	1.2x range max, continuous, 2x for 5 secs			
Relay Output Type	Single Pole changeover			
Relay Output Rating	250 V, 5 A AC resistive			
Operating Temperature	-20°C to +45°C (-4°F to 113°F)			
Storage Temperature	-30°C to +70°C (-22°F to 158°F)			
Humidity	95% RH (non-condensing)			
Pull-in Frequency	56 Hz			
Drop Out Frequency	55 Hz			
Insulation Between Circuits	2.2 kV			
Insulation to Case	4 kV			
Overvoltage Category	III			
Pollution Degree	II			
Enclosure Integrity	UL94-V0			
Enclosure Style	DIN 96			
Case Material	Polycarbonate UL 94V0			
Electrical Connections	Cage clamp, Plug / Socket			
Mounting	Snap-In			
Dimensions	96 x 96 x 65 mm			
Weight	200 g			
Burden	< 4 VA			

