CROMPTON INSTRUMENTS LED SYNCHROSCOPES

APPLICABLE UP TO 480 V



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

APPLICATIONS

- Switchgear Panels

RELEVANT STANDARDS AND TEST REPORTS

- IEC 61010

APPROVALS

CE Approved

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.

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ORDERING INFORMATION

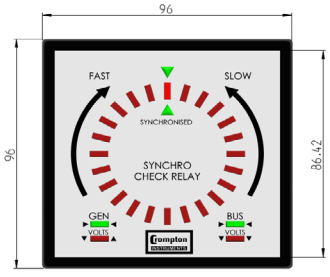
Part Numbers	Model	Voltage	Operation
ES7318-000	244-14HG-L-01	100/120 V (110 V nominal)	Synchro check relay, Voltage Difference and Dead Bus
ES8092-000	244-14HG-M-01	220/240 V (230 V nominal)	
ES8091-000	244-14HG-H-01	380/480 V (430 V nominal)	
ES8089-000	244-14GG-L-01	100/120 V (110 V nominal)	Synchro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

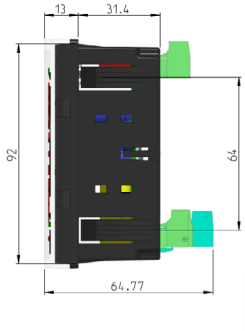
COMPATIBLE PARTS

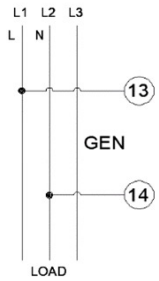
Model	Part Number	Case Style	Voltage	Frequency
007-14A-PRAE-C7	ES3830-000	ANSI 4.5"	120 V	50/60 Hz

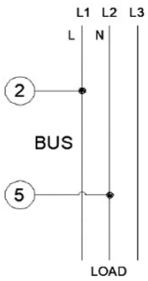


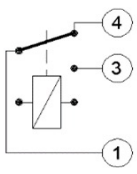
CUSTOMER DRAWING & CONNECTION DIAGRAM











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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