Technical Data Sheet

Platinum Series Sychroscope

Special Features

- Touch Screen Graphics display
- Potential free Relay Contact.
- Easy Navigation

ST SYNC displays actual difference of voltage, frequency & phase angle between the BUS (Reference) voltage & generator (Incoming) voltage. When two alternators or sources are to be parallel it is necessary that their frequency & amplitude should be equal and phase difference be near to zero. When all these 3 parameters are within the required limits ST SYNC indicates that the two sources can be paralleled.

Application Areas

Synchronizing two different BUS inputs.
Synchronizing two different Generator inputs.
Synchronizing Generator & BUS inputs

Product Features

Touch Screen Graphics display

RISH SYNC has touch sensible color graphics LCD display with resolution of 320 x 240.

Casing Material

Thick Steel Sheet EDD grade CR material

Graphical Analysis

Graphical representation of Synchronization status.
Frequency delta & phase angle delta and voltage delta.

Measured Parameters

Measurement of Frequency difference(BUS & Gen.) Δf.
Measurement of Phase angle difference(BUS & Gen.) $\Delta\theta$.
Measurement of Voltage amplitude difference(BUS & Gen.) ΔV.
BUS voltageb & BUS Frequency.
Generator Voltage & Generator Frequency.

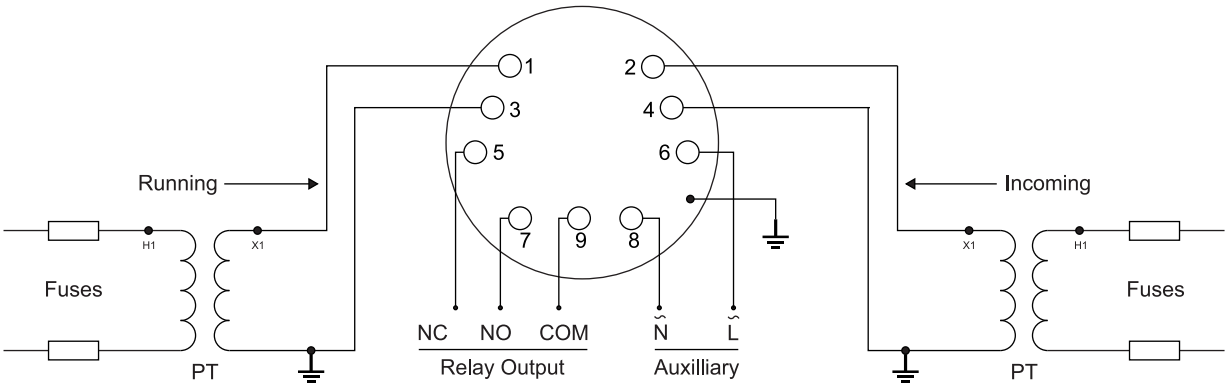
Potential free relay contact

Potential free Relay contact for indicating sync status.

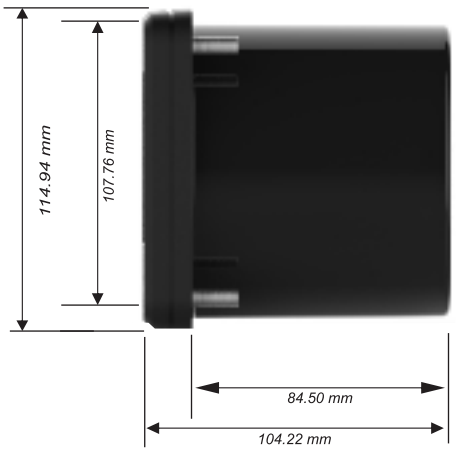
Technical Specifications:

Network Supported	Single phase / Three phase
Accuracy	
Phase Angle difference(θ)	±2°
Voltage Difference(ΔV)	±1% of Nominal value
Frequency Difference(ΔF)	±0.15 Hz
Reference Conditions for accuracy	
Ambient Temperature	23°C +/- 2°C
Input Voltage	Rated Voltage ± 2%
Input Voltage	
Nominal input voltage (AC RMS)	100 - 500 V
Max continuous input voltage	600 V
Overload Withstand	2x times of Nominal voltage for 1 second, repeated 10 times at 10 second intervals
Frequency Measuring Range	45Hz to 66Hz
Nominal input voltage burden	< 0.2 VA approx.
Auxilliary Supply	
Auxilliary Voltage & Burden	100-500 V AC/ DC, 45-65 Hz , 8VA
Display update rate	
Response time to step input	1 sec approx.
Applicable Standards	
Safety	IEC 61010-1-2010,Permanently connected use
IP for water & dust	(IP 54 for Front) IEC60529
Pollution degree:	2
Installation category:	III
Isolation between running & incoming circuits	2kV RMS for 1 minute
Environmental Conditions	
Other information	
Operating temperature	-10 to +55°C
Storage temperature	-20 to +65°C
Relative humidity	0... 95% non condensing
Warm up time	Minimum 3 minute
Shock	15g in 3 planes
Vibration	10... 150.... 10 Hz, 0.075mm amplitude
Temperature Coefficient	0.05%/°C
Relay Contact (For Sync Status)	
Contact Rating	240 VAC, 5 A

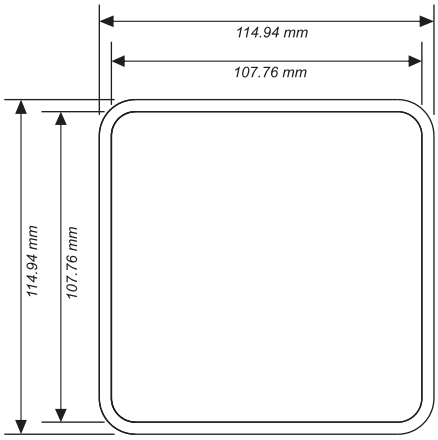
Electrical Connections



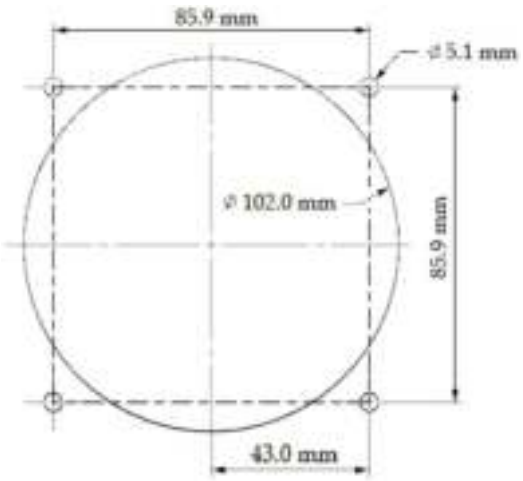
Dimensional Details



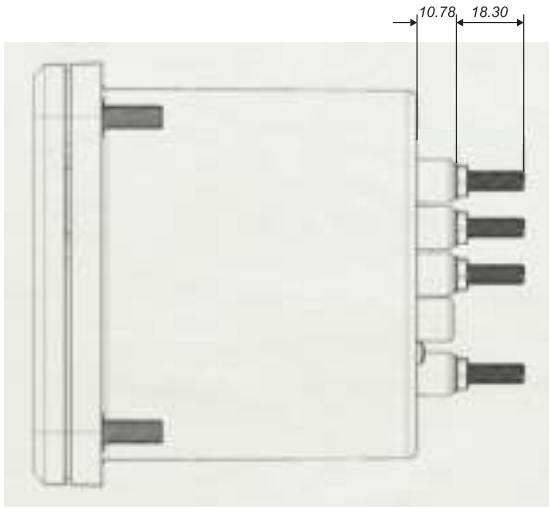
Side View



Front View



Panel Cutout



For more details and product codes, please contact our local office

sifam tinsley
PRECISION INSTRUMENTATION

Sifam Tinsley Instrumentation Inc.
3105, Creekside Village Drive,
Suite No. 801, Kennesaw,
Georgia 30144 (USA)
E-mail Id : psk@sifamtinsley.com
Web : www.sifamtinsley.com
Contact No. : +1 404 736 4903

Sifam Tinsley Instrumentation Ltd
Unit 1 Warner Drive,
Springwood Industrial Estate
Braintree, Essex, UK, CM72YW
E-mail: sales@sifamtinsley.com
Web: www.sifamtinsley.com/uk
Contact: +44(0)1803615139