

070 Series ANSI Switchboard Meters 360° A.C. LED Synchroscope

Specification

Voltage:	120, 240, 480 Volts A.C. or via P.T.	Safety:	IEC1010-1(300V A.C. rms installation degree 2)
Frequency:	40/65Hz	Dielectric:	4kV rms for 1 minute
Burden @ 60Hz:	4VA maximum	Isolation:	BUS/GEN/RELAY
Suitable for single or three phase systems		Vibration:	To Lloyds shipping specification
Approvals: ce approved			

Rating		Scaling	4½" Square Flange Standard Case Catalogue No.
120V	40/65HZ	SLOW FAST	077-14AU-PQYY-FQ
240V	40/65HZ	SLOW FAST	077-14AU-RRYY-FQ
480V	40/65HZ	SLOW FAST	077-14AU-SEYY-FQ

For connection diagram please see page 57 Fig 30

A.C. Synchrocheck Relay and LED 360° Synchroscope

Specification

Voltage:	110/120V (115V nominal) 220/240V (230V nominal) 380/480V (430V nominal)	Phase Difference:	+0 to 20° ±1°
		Voltage Difference:	+0 to 20% ±2%
		Time Delay:	0 to 2.5 seconds +10%

Approvals: ce approved

Rating		Scaling	4½" Square Flange Standard Case Catalogue No.
Live Bus			
110/120V	40/65HZ	SLOW FAST	077-14GU-POYY-FQ
220/240V	40/65HZ	SLOW FAST	077-14GU-RSYY-FQ
380/480V	40/65HZ	SLOW FAST	077-14GU-SZYY-FQ
Dead Bus			
110/120V	40/65HZ	SLOW FAST	077-14HU-POYY-FQ
220/240V	40/65HZ	SLOW FAST	077-14HU-RSYY-FQ
380/480V	40/65HZ	SLOW FAST	077-14HU-SZYY-FQ
Live Bus			
120V	40/65HZ	SLOW FAST	077-14LU-PQYY-FQ
240V	40/65HZ	SLOW FAST	077-14LU-RRYY-FQ
480V	40/65HZ	SLOW FAST	077-14LU-SEYY-FQ
Dead Bus			
120V	40/65HZ	SLOW FAST	077-14DU-PQYY-FQ
240V	40/65HZ	SLOW FAST	077-14DU-RRYY-FQ
480V	40/65HZ	SLOW FAST	077-14DU-SEYY-FQ

For connection diagram please see page 57 Fig. 30

In the 0.77-14G and 0.77-14H models, the generator voltage is free to track the bus voltage (+ the voltage difference preset) over the input voltage range. In the 077-14L and 077-14D models, the generator voltage is to match the nominal input (bus) voltage specified (within the voltage difference preset).

360° A.C. LED Synchroscope

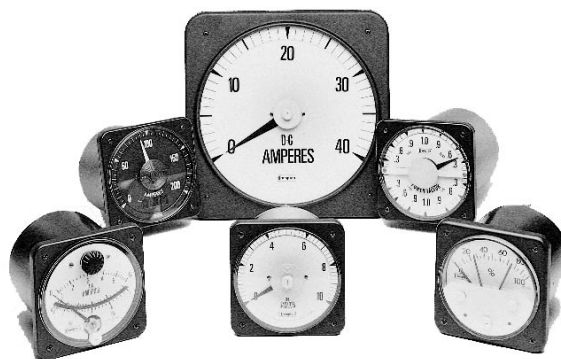


A.C. Synchrocheck Relay
& LED 360° Synchroscope



This high quality range of Switchboard instruments complies with the American specification ANSI-C39.1 (1981) accuracy class 1.

rugged design characteristics suit the most demanding of environmental applications.



Description

077 models have case sizes of 4.5 Inches with heavy gauge pressed steel cases. Mounting is by four integral studs. Standard fronts are a one piece flame retardant polycarbonate moulding with a matt black finished bezel area, and a specially contoured window to minimize reflection from adjacent light sources.

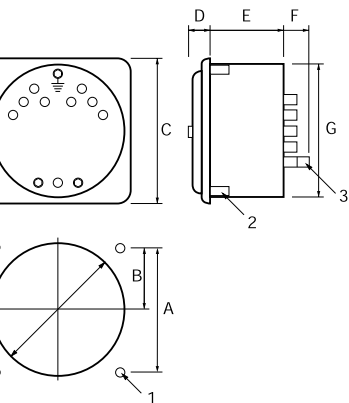
Features

- » Rugged Hi-Q taut-band suspension
- » Accuracy class 1
- » Scales are 240° moving iron and 250° moving coil
- » Response time is approximately 2.5 seconds to full scale (077 and 078) and 3.5 seconds (079)
- » Overshoot is 33% maximum
- » Bump, Shock and vibration proof
- » Meets all the requirements of ANSI-C39.1 (1981)
- » Models 077 to IP54(NEMA 3S) splash proof
- » IP55 (NEMA 4) hoseproof is an optional extra
- » Parallax error-free platform dials
- » BASEEFA intrinsically safe options certification code Ex ia 11c T4
- » Operating temperature range 0°C to +40°C, -40°C to +70°C (078)
- » Storage temperature -10°C to +50°C
- » Extreme temperature range -20°C to +65°C
- » Dielectric withstand: 2.3kV for 1 minute
- » Calibrated at 23°C
- » Non reflecting window
- » JIS dimensioned product available on request

Dimensions

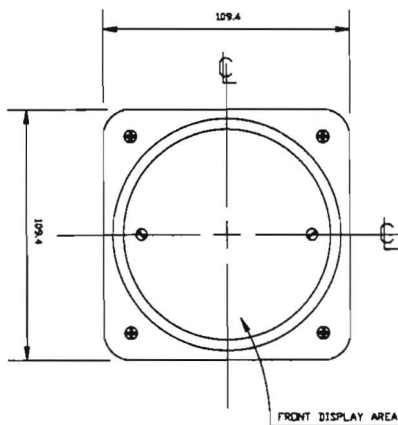
Model	Panel Cut-out			Rear View C				
	Dia	A	B		D	E	F	G
077	103	86	43	110	17	86	30	101

- 1 4 Fixing holes Ø 8mm.
- 2 1/4-28 UNF fixing studs.
- 3 10-32 UNF Terminals (M5 screw clamp terminal on model 075).

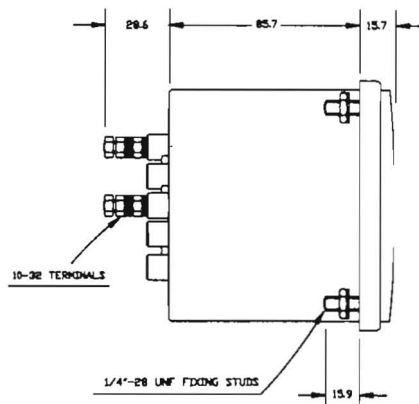


DIMENSIONS

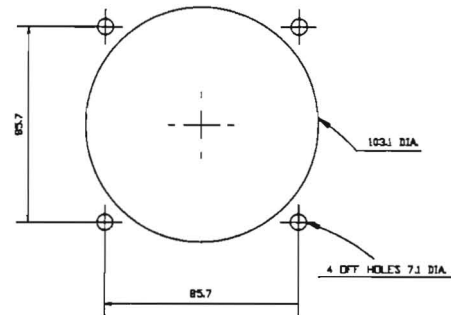
Front view



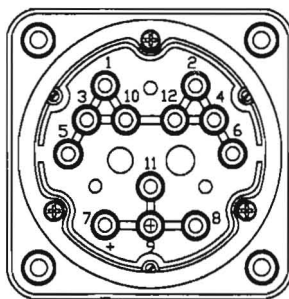
Side view



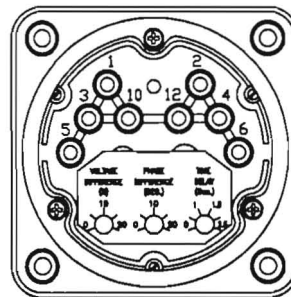
Panel Cutout
Maximum panel
thickness 5mm



Rear view 077-14A

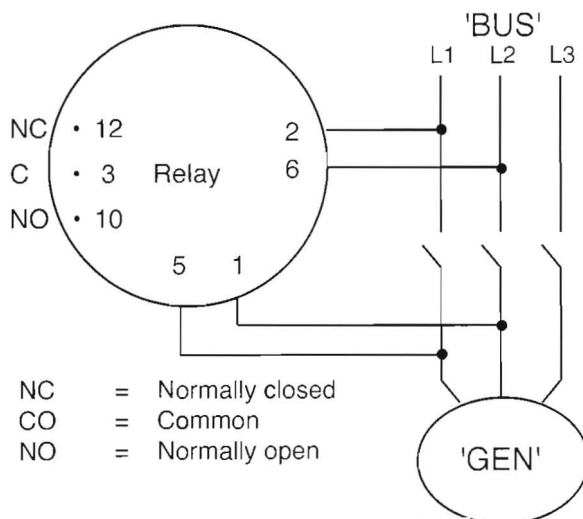


Rear view
077-14L, 077-14D, 077-14G, 077-14H



REAR POT ADJUSTMENT
(Voltage difference 0-10% on models 077-14G and 077-14H)

CONNECTION DIAGRAM



Terminals 3, 12 and 10 are not used on model 077-14A

Our policy is one of continuous development and although the information is correct at the time of publication, we reserve the right to supply products differing in construction from those illustrated and described.



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