



*Repeat cycle timer
features separate dial
scales for ON and
OFF time*



The HG1 is an ON-OFF repeat cycle timer engineered with the same features as the rest of the CYCL-FLEX® family.

- Repeat cycle, two circuit timer housed in CYCL-FLEX® plug-in case
- Separate dial scale for ON time and OFF time
- Individually adjustable ON and OFF time intervals via concentric knobs on front of unit
- Combination of ON and OFF time equals total time cycle of unit

OPERATION

A cycle progress pointer oscillates between the ON and OFF time setpoints. As this pointer crosses the zero point on the dial, two internal 10 amp SPDT output switches transfer. The transfer point of the output switches is adjustable to allow a make before break (overlap) or a break before make (dwell) switch action. The overlap or dwell time interval is limited to 1.5% of the total (ON plus OFF) time cycle.

A synchronous unidirectional motor drives the unit through precision gearing. Instant reversing of the progress pointer is accomplished by positive mechanical action.

SPECIFICATIONS

Time Ranges:

Sym.	Dial Range	Minimum Setting	Max. Dwell or Overlap
00	30 Sec.	.5 Sec.	.5 Sec.
01	60 Sec.	1 Sec.	1 Sec.
02	150 Sec.	2 Sec.	2 Sec.
03	5 Min.	5 Sec.	5 Sec.
04	10 Min.	10 Sec.	10 Sec.
05	30 Min.	30 Sec.	30 Sec.
06	60 Min.	1 Min.	1 Min.
07	150 Min.	2 Min.	2 Min.
08	5 Hr.	5 Min.	5 Min.
09	10 Hr.	10 Min.	10 Min.
10	30 Hr.	30 Min.	30 Min.

Voltage/Frequency: 120V, 60 Hz
240V, 60 Hz

Burden: 2.5 VA @ 120V AC

Output Rating: 10 amp 120 VAC, 5 amp 240 VAC Resistive
Mechanical Life: 10,000,000 operations
Switch Life: 250,000 under 10 amp, 120 VAC resistive load
1,000,000 under 5 amp, 120 VAC resistive load

Repeat Accuracy: 1/2 of 1% of dial

Temperature Range: -20° to 140°F

Agency Approvals: UL Recognition E61735
CSA Certification LR26861

OPERATION

To Set

Move the black pointer to the desired OFF setting and the orange pointer to the desired ON setting (as shown in Figure 1). The sum of these ON and OFF intervals cannot exceed the total time of one scale. Switch contacts are tripped open or closed each time the indicator pointer passes 0. When the indicator pointer is in the OFF scale to the left of 0 contacts 4-3 and contacts 6-8 are closed and 4-5 and 6-7 are open. When the indicator pointer is in the ON scale to the right side of 0 contacts 4-5 and 6-7 are closed and 4-3 and 6-8 are open. The indicator pointer must travel to the preset limit and back to 0 to complete the total ON or OFF interval. The two switches can operate together or be set to allow a break before make (dwell) interval or make before break (overlap) between ON-OFF switching. Refer to the standard time range chart under specifications for the maximum dwell or overlap interval for each time range. Figure 2 illustrates the path of the indicator pointer and the switch action each time the zero point is passed. Figure 3 illustrates the terminal location on the rear of the unit case.

WIRING

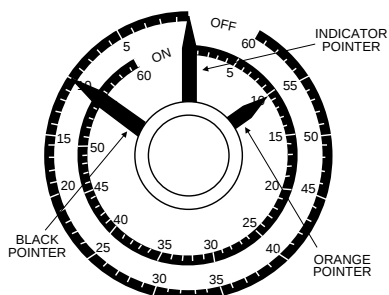


Figure 1

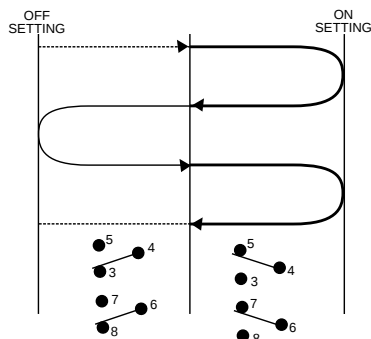


Figure 2

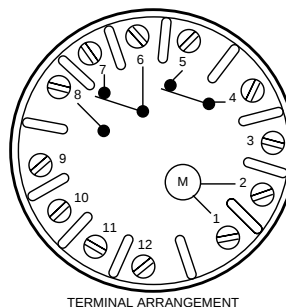
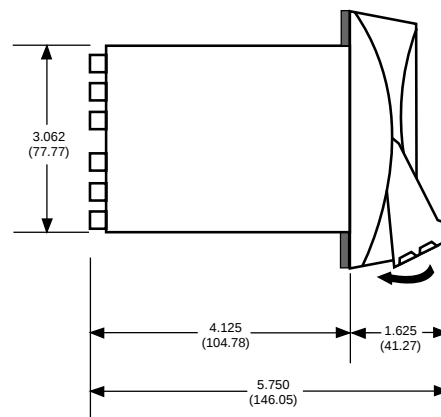
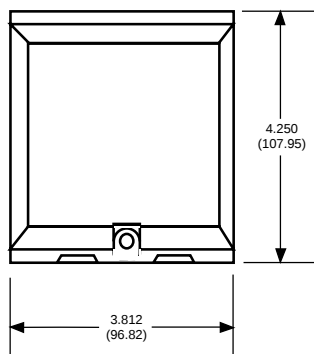
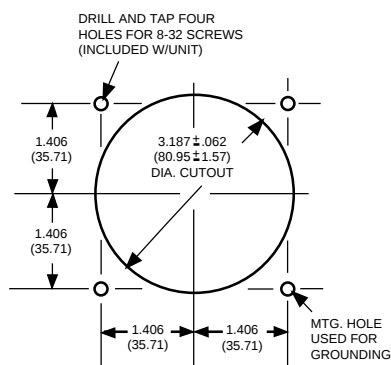


Figure 3
TERMINAL ARRANGEMENT
CONTACTS SHOWN IN
"ON" POSITION

MOUNTING



ENCLOSURES

Model No.	NEMA Class	Description
HN308	1	Surface Mtg. with terminal block
HN364	1	Surface Mtg. without terminal block
HN370	1A	Dual unit cabinet less unit cases and toggle switch, with 9 terminal block

ACCESSORIES

Model No.	Description
H-5331	Mounting Brackets 2 req'd per timer
HP50-31	One Hole Mounting Ring
HP50-133	Surface Mounting Adapter to use in place of brackets

ORDERING INFORMATION

Consult Customer Service for availability of other time ranges, voltages, and frequencies.

