EAGLE SIGNAL brand

Electric Timers

HG1 FLEXOPULSE® Repeat Cycle Timer



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 plug-in 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

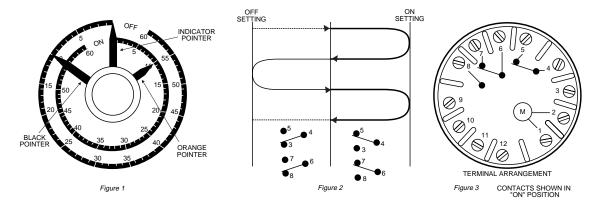
CSA Certification LR26861

OPERATION

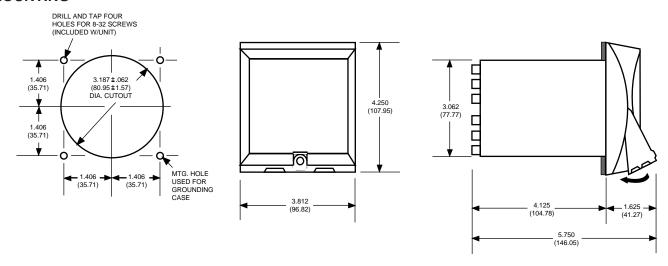
To Set

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



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	
HG100-52	Dial Lock	

ORDERING INFORMATION

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

