



Adjustable timing as a percentage of overall cycle... ideal for heat control, machine lubrication, etc.

File No. E61735



The HQ9E Percentage Timer for use where Repetitive "ON" time of a fixed cycle is to be varied.

The HQ9E offers accurate efficient control for many industrial applications. A few of these are Motor Control, Electric Heaters Ovens Program Temperature Controls, Chemical Feeding Lubrication Systems.

Standard features include a pilot light that is steady on when relay is energized and blinks when relay is de-energized. (During on portion of cycle)

The HQ9E Percentage Timer is compatible with the Cycl-Flex Series featuring the unique plug-in mounting

OPERATION

A Micro-controller unit switches a relay contact for a percent (per dial setting) of the total time cycle. Setting may be made or changed with the timer operating.

Relationship of switch transfer point at zero and desired interval is made by adjustment of the setting pointer. The load contacts transfers as the cycle progresses pass the setting pointer as indicated by the LED array. The HQ9E continues to operate as a repeat cycle timer as long as power is supplied to E terminals. "On" time is adjustable from 5% to 100% of the total time range. Load connection are made as required to form-C contacts 3,4 & 5. (see wiring diagram)

SPECIFICATIONS

Time Ranges:

SYM	DIAL RANGE	SYM	DIAL RANGE
01	15 Sec.	08	15 Min.
02	30 Sec.	09	30 Min.
03	60 Sec.	10	1 Hr.
04	120 Sec.	11	2 Hrs
06	5 Min.	14	20 Hrs..

Voltage/Frequency:

120 VAC (+10, -15%) 50/60 Hz
240 VAC (+10, -15%) 50/60 Hz

Contact Rating:

10 Amps Resistive, Inductive @ 120VAC; 1/6 HP @ 120VAC
5 Amps Resistive, Inductive @ 240VAC; 1/2 HP @ 240VAC

Setability: ±1%

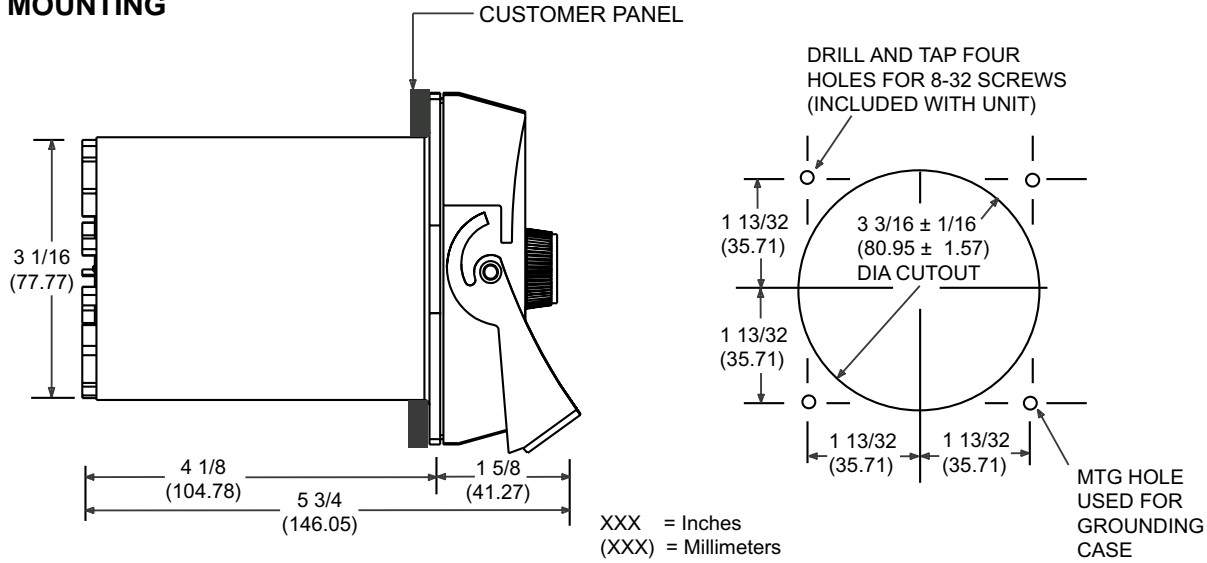
Temperature Range: -10° to 140°F (-23° to +60°C)

Power Consumption: 1.2 Watts

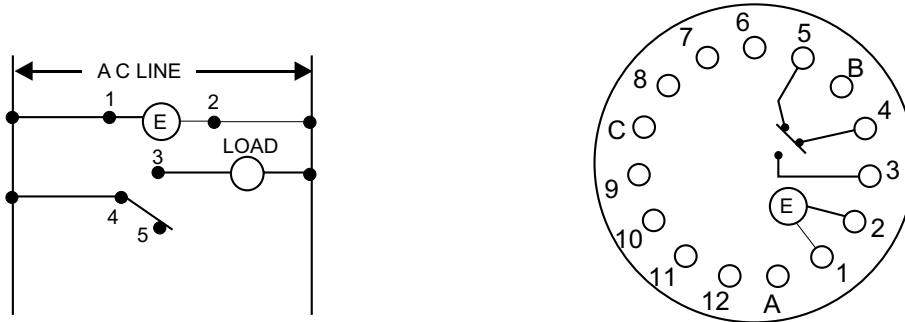
Agency Approvals: UL/CUL Recognition E61735

NOTE: Because of precise adjustment and calibration procedures, it is recommended that all repair or part replacement be done at the factory.

MOUNTING



WIRING



Standard CW Dial References the operation of the load when connected to terminal number 3 "ON Time" adjustment 5% to 100%

ORDERING INFORMATION

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

Symbol	Time Range	Symbol	Time Range
01	15 Sec.	08	15 Min.
02	30 Sec.	09	30 Min.
03	60 Sec.	10	1 Hr..
04	120 Sec.	11	2 Hr.
06	5 Min.	14	20 Hr.

HQ9E **06** **A6** **07**

VOLTAGE & FREQUENCY	
Symbol	Description
A6	120V, 50/60 Hz
B6	240V, 50/60 Hz

FEATURES	
Sym.	Description
07	Dial Lock

DANAHER INDUSTRIAL CONTROLS
2100 West Broad Street
Elizabethtown, NC 12345

CUSTOMER CARE
Toll-Free: +1.800.390.6405
Fax: +1.910.879.5486
Email: etn-customerservice@dancon.com

TECHNICAL SUPPORT
Toll-Free: +1.800.234.8731
Fax: +1.847.782.5277
Email: eagle-signal.techsupport@dancon.com