



CD300 Series Solid State Timer

The CD300 is a solid state reset timer housed in a standard CYCL-FLEX® case. The timer uses CMOS integrated circuits for the timing function. The timer is set by three digital thumbwheel switches on the front of the unit. Five neon annunciators on the front of the unit indicate when the unit is timing, and the timing cycle progress in increments of 25%, 50%, 75%, and 100% (timed out).

The timing is controlled by an internal oscillator. The oscillator output is directed to designated frequency dividers through a programming wire, providing the selection of one of three time ranges.

Relay (CR1) is energized when power is applied to the control input. For standard start units, timing starts when the clutch relay is energized. For reverse start units, the timer is reset when the clutch relay is energized and timing starts when the input to the relay is removed.

A delay relay (CR2) is energized when the timing cycle is complete. The operation of the delay relay is identical in both standard start and reverse start units.



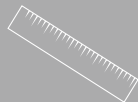
- Configured into one of three time ranges via program wire located on printed circuit board inside the unit (easily accessible when unit is removed from the case)
- Function is similar to Eagle Signal brand HP5 and CT530/531
- Easily programmable reverse start feature
- Two electromechanical relays control output sequences - one energizes when timer starts timing cycle and the other energizes when timer completes timing cycle
- Usable timing output available when instantaneous and delayed relay contacts are interconnected



TIME



COUNT



MEASURE

8:43

DISPLAY



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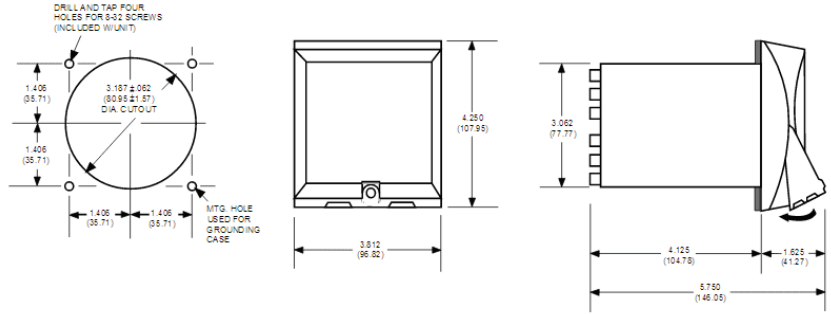
SPECIFICATIONS

TIME RANGES	See table below. The 01 time range is standard. The CD300 is field programmable for the other time ranges.
REPEATABILITY	Constant Voltage & Temperature ±0.1% of setting or 35 ms, whichever is larger
RESET TIME	100 ms
CYCLE PROGRESS	Cycle ON annunciator with time progression annunciators indicating elapsed time percentages of 25%, 50%, 75%, and 100% (cycle complete)
BURDEN	120 VAC, 0.8 VA max Reset, 4.0 VA max. Timing, 7.3 VA max. Timed-Out; 240 VAC, 1.6 VA max Reset, 4.8 VA max. Timing, 8.0 VA max. Timed-Out
POWER ON RESPONSE	40 ms max. after application of line voltage to pins 1 and 2
OPERATING TEMPERATURE	32° to 140° F (0° to 60° C)
OUTPUT RATING	Relay: 10 amp steady state at 120 VAC, 60 Hz; Mechanical Life: over 20 million operations; Electrical Life: contingent on load characteristics
POWER INTERRUPTION	Line voltage interruptions of 16 ms or less will not reset unit
TRANSIENT VOLTAGE IMMUNITY	Unaffected by 50 microseconds, 600 V peak transients superimposed on the line input
VIBRATION	Unit function is unaffected by 2.5G sinusoidal vibration magnitude in both directions of three perpendicular mounting axes imposed from 10 to 100 Hz
APPROVALS	UL Recognition E96337 CSA Certification LR26861

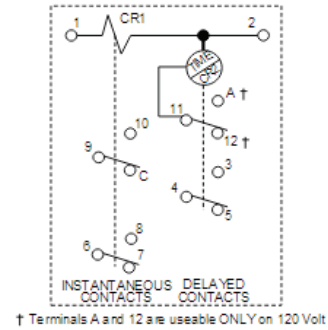
TIME RANGES

SYMBOL	MAXIMUM RANGE	MINIMUM SETTING
01	99.9 seconds	.1 second
02	999 seconds	1 second
03	99.9 minutes	.1 minute

DIMENSIONS



WIRING



ORDERING INFORMATION

CD3 - **XX** **XX** **XX**

TIME RANGES		VOLTAGE/FREQUENCY		CUSTOMER PROGRAMMABLE FEATURE	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
01	99.9 seconds*	A6	5 seconds	01	Reverse Start
02	999 seconds	B6	15 seconds		
03	99.9 minutes				

*THE 01 TIME RANGE IS STANDARD. THE CD300 IS FIELD PROGRAMMABLE FOR THE OTHER TIME RANGES.