A Dial-Adjustable TDR with cycle progress indication, the ATC 322 can also be used as a low-cost automatic reset timer for a wide range of interval, delay and pulse timing functions, in either ON -delay or OFF-delay operation.
PRICE/PERFORMANCE VALUE: Although it is priced like a TDR, the 322 provides the versatile timing functions and features of much more expensive automatic reset timers.
INSTANTANEOUS AND DELAYED LOAD SWITCHES: Because the standard 322 includes an instantaneous switch as well as two delayed switches, it can be used in the On-Delay mode for interval and/or delayed control, with either a momentary or sustained start signal. All three switches are mounted on a sliding deck which facilitates replacement and maintenance.
SURFACE OR FLUSH MOUNT: The 322 is provided with hardware for surface mounting or, if desired, flush mounting through a single $15 / 16$ " OD cutout in a $1 / 8^{\prime \prime}$ panel.
CYCLE PROGRESS INDICATION: A pointer in the dial knob rotates during the cycle, continuously showing the time remaining until time-out.

## OPERATION

The 322 is a synchronous motor-driven timer with an electricallyoperated clutch equipped either for On -Delay or Off-Delay operation.
ON-DELAY: When power is applied (start signal sustained on), the clutch engages, the motor begins to drive a cam toward its zero position, and the instantaneous switch transfers from one set of contacts to the other. At the end of the timed period, the cam trips one of the delayed switches, but the motor continues to run. A brief time later (about $2-1 / 2 \%$ to $5 \%$ of full scale), the cam trips the second delayed switch, stopping the motor but leaving the clutch engaged. The 322 resets when power is removed from the clutch.
OFF-DELAY: Timing begins when power is removed (start signal off) from the spring-loaded, normally-engaged clutch. The timer resets when power is restored to the clutch, thus disengaging it and transferring the instantaneous switch from one set of contacts to the other. Action of the delayed contacts is the same as with the On-Delay timer. A power outage stops the motor but does not reset the Off-Delay 322; the timer completes the interrupted cycle when power is restored.

## WIRING



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* $D_{2}$ trips approximately $2-1 / 2 \%$ of range after end of cycle.
** Assumes a sustained closed start signal (i.e. longer than the dial set time).

| SWITCH | CONTACTS | OFF DELAY |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Timing Sequence** |  |  |  |
|  |  | Before Start | During Cycle | * | End of Cycle * |
| Instantaneous | 4-3 |  |  |  |  |
|  | 4-5 |  |  |  |  |
| Delayed ( $\mathrm{D}_{2}$ ) | 11-6 |  |  |  |  |
|  | 11-7 |  |  |  |  |
| Delayed ( $\mathrm{D}_{1}$ ) | 9-10 |  |  |  |  |
|  | 9-8 |  |  |  |  |
| ${ }^{*} D_{2}$ trips approximately $2-1 / 2 \%$ to $5 \%$ of range after end of cycle. |  |  |  |  |  |
| ** Assumes a sustained closed start signal (i.e. longer than the dial set time). |  |  |  |  |  |

MODEL NUMBER


## DIMENSIONS (INCHES/MILLIMETERS)

SURFACE MOUNTING OF TIMER


