

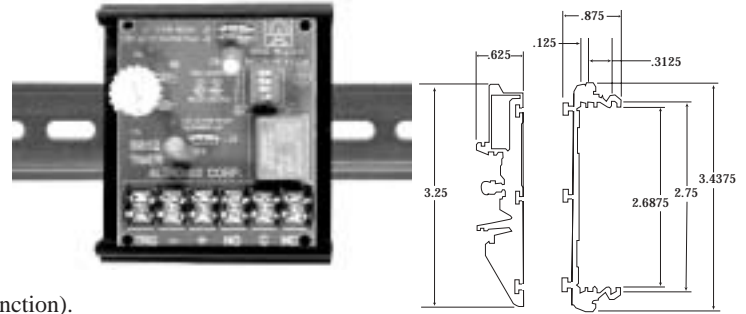
**Overview:**

Model DTMR1 programmable timer is suitable for many functions that require a timed operation e.g. Access Control Applications, Siren/Bell Cut Off Module, Dialer Delay, Guard Tour Supervisory Timer, etc. Some optional functions include: One Shot, Delayed Release, Delayed Operate, Delayed Pulse and Pulsar/Flasher. A new feature has been added which provides a momentary relay activation at the end of a desired timing cycle. This feature eliminates the need for having to use two (2) timers to achieve this function. Another new feature will cancel (interrupt) timing cycle and reset timer if desired.

**Specifications:**

- 12 or 24VDC operation is selectable.
- Quick and extremely accurate time range adjustment from 1 sec. to 60 min.
- LED indicates relay is energized.
- Form "C" relay contacts are 8 amps at 120VAC/28VDC.
- Current Draw: Stand-by 3mA, Relay Energized 40mA.
- Triggers via positive DC (+) voltage, dry contact closure, or removal of contact closure.
- Selectable relay activation at the start or end of the timing cycle.
- One (1) second momentary relay activation at the end of the timing cycle (eliminates the need to use two (2) timers for this function).
- Built-in reset feature which cancels timing cycle.
- Repeat (pulsar/flasher) mode.
- Includes Snap Trac (order Altronix model #ST3)

Board dimensions: 3"L x 2.5"W x .75"H



**ST3 Mechanical Drawing**

**Installation Instructions:**

1. Mount DTMR1 in desired location/enclosure.
2. Set proper DC Input Voltage Dip Switch 3: 12VDC ON, 24VDC OFF.
3. Refer to **Dip Switch Selection** and **Jumper Selection Tables** for desired functions (e.g.: Timing, Trigger, Pulse).
4. Measure and verify DC input voltage before powering device to ensure proper operation.
5. Refer to **Terminal Identification Table** and **Typical Applications Fig. 1 thru Fig. 8.** for desired wiring connections.

**Note:** When triggering via a N.O. (normally open), momentary or maintained trigger, connect the dry contact trigger to Pos (+) and TRG terminals.

When triggering via a N.C. (normally closed), momentary or maintained trigger, connect the trigger to Neg. (-) and TRG terminals and install a 1K (1,000 ohm) resistor between the Pos (+) and TRG terminals (*fig. 8*).

**Dip Switch Selection Table:**

Dip #	Off	On
1	Relay energizes at start of timing cycle.*	Relay energizes at the end of timing cycle.*
2	1-60 minutes timing range. (adjust trimpot)	1-60 seconds timing range. (adjust trimpot)
3	24VDC operating voltage.	12VDC operating voltage.
4	Timing begins immediately upon trigger input.	Timing starts after removal of trigger input.

\* When relay energizes (LED is on) [N.O. & C] switch from open to close and [N.C. & C] switch from close to open.

**Jumper Selection Table:**

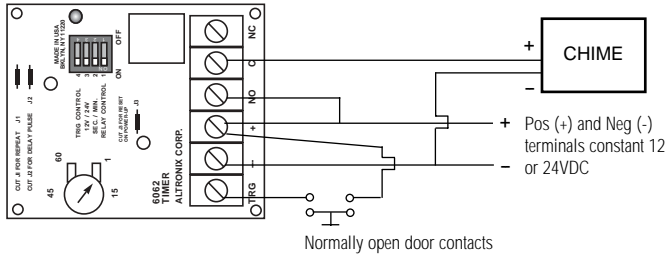
Number	Function/Description
J1	Cutting J1 selects the pulser/flasher mode. Relay will flip ON and OFF continuously in equally set timed intervals when timer is powered up.
J2	Cutting J2 puts timer in delayed output mode. Relay will pulse for 1 second at the end of a preset timing cycle. *Dip Switch 1 must be ON for this function.
J3	DTMR1 will go through an initial timing cycle when first powered up unless J3 is cut. If J3 is cut, timing can only be initiated via TRG terminal

**Terminal Identification:**

Terminal Legend	Function/Description
TRG	Applying a positive voltage will activate timing cycle. Trigger voltage range: 7-12VDC at 12 volt setting, 15-24VDC at 24 volt setting.
-, +	Connect 12 or 24VDC filtered and regulated voltage. Refer to <b>Dip Switch Selection Table</b> for voltage setting.
N.O., C, N.C.	Dry form "C" relay contacts are rated 8 amp at 120VAC/28VDC.

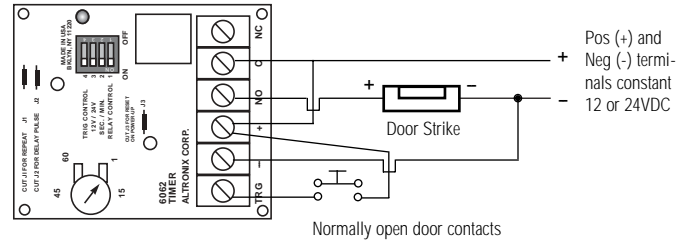
## DTMR1 Typical Applications

**Fig. 1 - Timed Door Annunciator:**



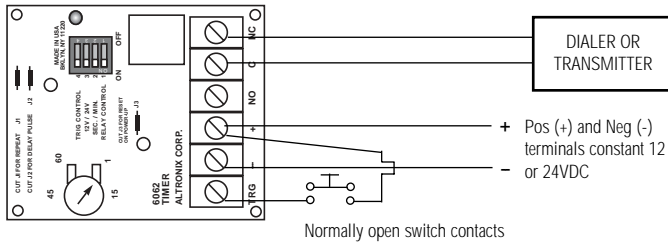
For this application Switch #1 and Switch #4 should be in the OFF position.

**Fig. 5 - Timed Door Strike:**



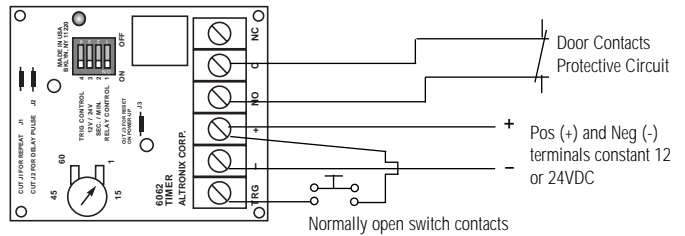
For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

**Fig. 2 - Guard Tour Supervisory Timer:**



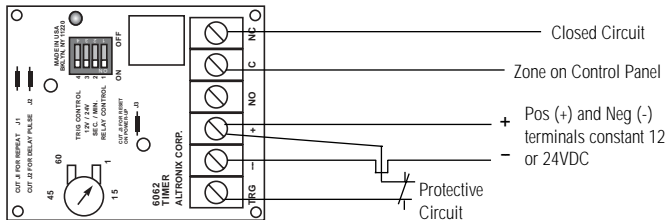
For this application Switch #1 and Switch #4 should be in the OFF position.

**Fig. 6 - Timed Shunt for a Door:** Use to bypass alarm contacts.



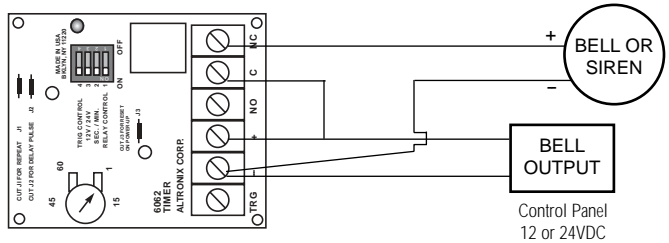
For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

**Fig. 3 - Swinger Eliminator:**



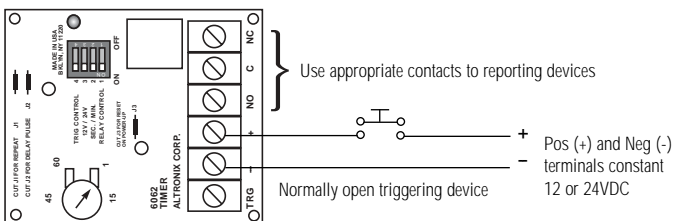
For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

**Fig. 7 - Bell Cut Off Timer:**



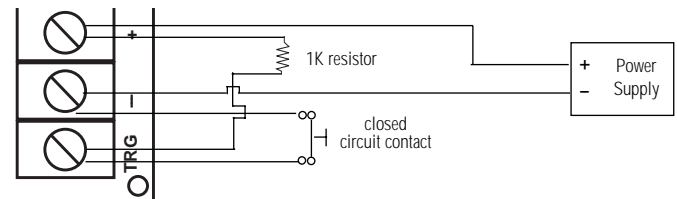
For this application Switch #1 should be in the ON position and Switch #4 is not used in this application.

**Fig. 4 - Delay Timer:** Use for Door Ajar Alarm, Delayed Activation of Digital Dialer, Defrost Cycle Timer, etc...



For this application Switch #1 should be in the ON position and Switch #4 is not used in this application.

**Fig. 8 - Closed Circuit Trigger Option:**



For this application a 1K (1,000 ohm) resistor must be installed as shown. (resistor not supplied)

Altronix is not responsible for any typographical errors.