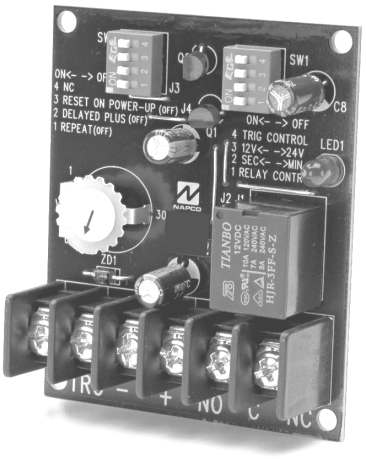
NAPCO®
333 Bayview Avenue
Amityville, New York 11701
For Sales and Repairs, (800) 645-9445
For Technical Service, (800) 645-9440

NP-PTM
PROGRAMMABLE TIMER

WI1343A 12/05



DESCRIPTION

The NP-PTM programmable timer is appropriate for various functions that require a timed operation, for example, Siren/ Bell Cut Off Modules, Dialer Delay, Access Control Applications, Guard Tour Supervisory Timers, etc. Some optional functions include: One Shot, Delayed Release, Delayed Operate, Delayed Pulse and Pulser/Flasher. Includes a feature that provides a momentary relay activation at the end of a desired timing cycle, eliminating the need for using two (2) timers to achieve this function. Another feature cancels (interrupt) the timing cycle and reset the timer if desired.

FEATURES

- 12 or 24VDC operation is selectable.
- Quick and accurate time range adjustment from 1 sec. to 60 min.
- LED indicates relay is energized.
- Current Draw: Stand-by 3mA, Relay Energized 40mA.
- Triggers via positive DC (+) voltage, dry contact closure, or removal of contact closure.
- Form "C" relay contacts are 8 amps at 120VAC/28VDC.
- 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 (pulser/flasher) mode.
- Snap Trac compatible.
- DIN Rail Mount version available.
  Board dimensions: 76.3mm L x 63.7mm W x 25.0mm H

INSTALLATION INSTRUCTIONS

1. Mount NP-PTM (Multi-Purpose Timer) in desired location or into an enclosure.
2. Set Dip Switch 3 for proper DC Input Voltage- 12VDC switch ON, 24VDC switch OFF
3. Refer to ***Dip Switch 1 Selection*** and ***Dip Switch 2 Selection Tables*** for desired functions (e.g.: Timing, Trigger, Pulse)
4. Refer to the ***Terminal Identification Table*** and ***Typical Applications*** (see fig. 8 on reverse) for desired wiring connections.
   Note: It is good operating practice to measure and verify DC input voltage before powering device to ensure proper operation.
   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 1 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.

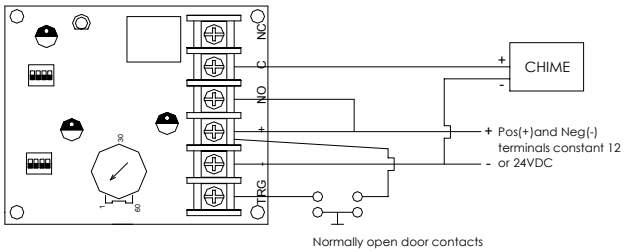
* When relay energizes (LED is on) [N.O. & C] switch from open to close and [N.C. & C] switch from close to open.

DIP SWITCH 2 SELECTION TABLE	
DIP#	**Function/Description**
1	The NP-PTM will go through an initial timing cycle when first powered up unless DIP 1 is OFF. If DIP 1 is OFF, timing can only be initiated via TRG terminal
2	DIP 2 is OFF 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.
3	DIP 3 is OFF selects the pulser/flasher mode. Relay will flip ON and OFF continuously in equally set timed intervals when timer is powered up.
4	NC

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 ***Dip Switch 1 Selection Table*** for voltage setting.
N.O., C, N.C.	Dry form "C" relay contacts are rated 8 amps at 120VAC/28VDC.

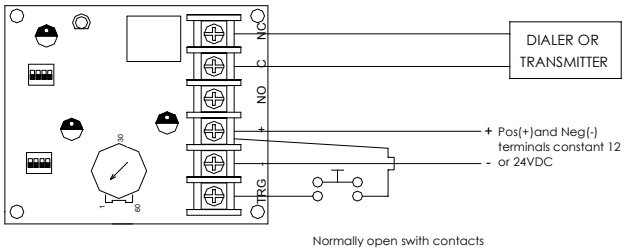
NP-PTM Typical Applications

Fig. 1 - Timed Door Annunciator:



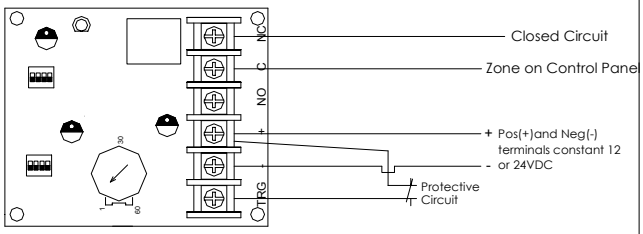
For this application Switch #1 and Switch #4 should be in the OFF position.

Fig. 2 - Guard Tour Supervisory Timer:



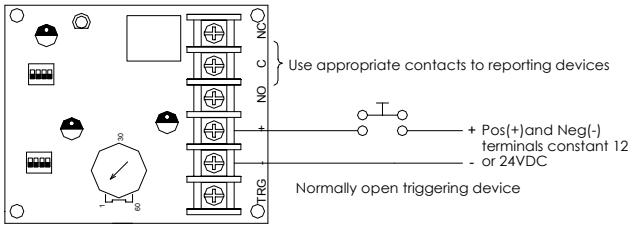
For this application Switch #1 and Switch #4 should be in the OFF position.

Fig. 3 - Swinger Eliminator:



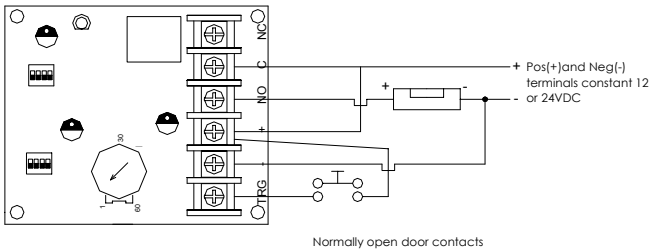
For this application Switch #1 should be in the OFF position and Switch #4 shound be in the ON position.

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



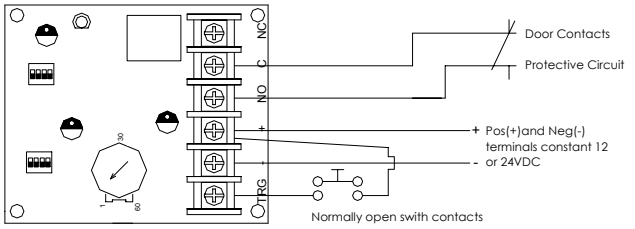
For this application Switch #1 should be in the ON position and Switch #4 is not used in this application.

Fig. 5 - Timed Door Strike:



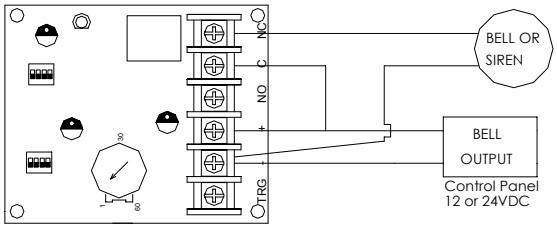
For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

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



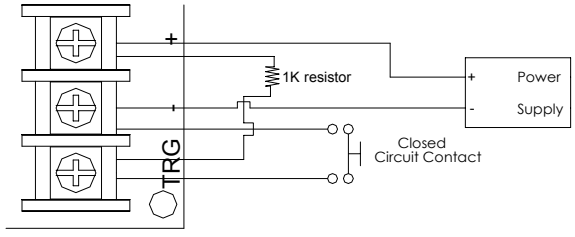
For this application Switch #1 should be in the OFF position and Switch #4 shound be in the ON position.

Fig. 7 - Bell Cut Off Timer:



For this application Switch #1 should be in the ON 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)