



Description

Model SA-PT-1 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 feature will cancel (interrupt) timing cycle and reset 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 (pulsar/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 SA-PT-1 (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 (FIGURE 1-8)**, 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:

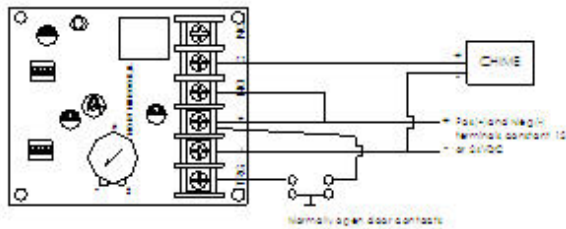
DIP#	Function/Description
1	SA-PT-1 will go through an initial timing cycle when first powered up unless DIP 1 is OFF. If DIP 1 is OFF, timing can only be initiated via TRG terminal
2	DIP 2 is OFF puts timer in delayed output mode. Relay will pulse for 1 second at the end of a preset timing cycle. *Dip Switch 1 must be ON for this function.
3	DIP 3 is OFF selects the pulsar/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.

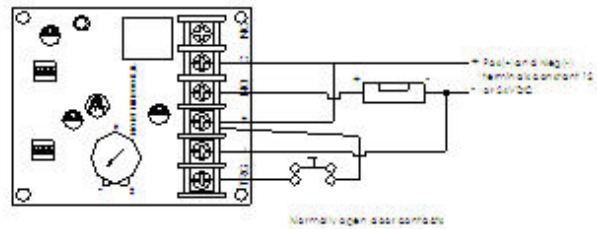
Typical Applications

Fig. 1 - Timed Door Annunciator:



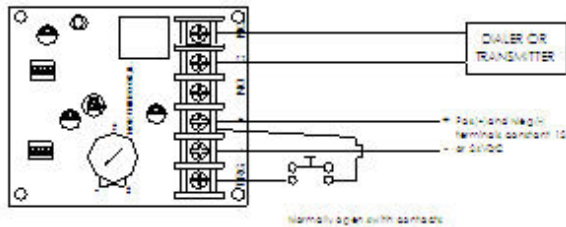
For this application Switch #1 and Switch #4 should be in the OFF position.

Fig. 5 - Timed Door Strike:



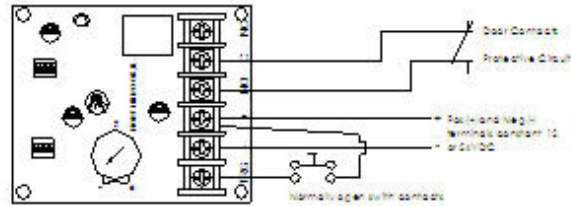
For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

Fig. 2 - Guard Tour Supervisory Timer:



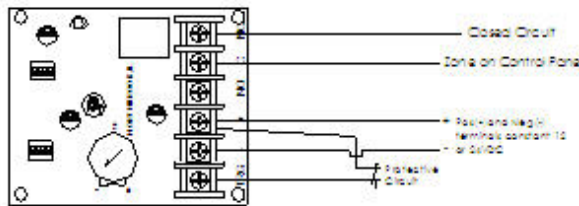
For this application Switch #1 and Switch #4 should be in the OFF position.

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



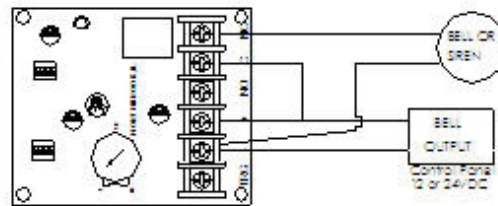
For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

Fig. 3 - Swinger Eliminator:



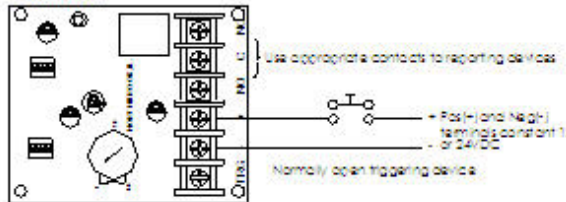
For this application Switch #1 should be in the OFF position and Switch #4 should be in the ON position.

Fig. 7 - Bell Cut Off Timer:



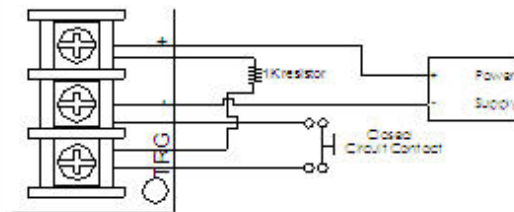
For this application Switch #1 should be in the ON position and Switch #4 is not used in this application.

Fig. 4 - Delay Timer: Use for Door Alarm 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)

Access Technologies International, Inc., (ATI) is not responsible for any typographical errors. Product specifications are subject to change without notice