

# INSTALLATION INSTRUCTIONS

# UNIVERSAL TIMER

## MODEL UT-1

**Programmable Digital Delay Timer For All Timing Requirements . . .**  
**Bell Cut-Off . . . Dialer Delay . . . Flasher . . . Pulsar . . .**  
**Swinger Eliminator . . . Etc . . .**

- Sixteen Adjustable Time Ranges
- Four Modes of Operation
- S.P.D.T. 3A. Relay Contacts
- Range from One Second to One Hour
- MINIDIP Switch Selects Range and Mode
- Noise Immunity On All Inputs
- Delay On Operate Mode
- Delay On Release Mode
- One Shot Mode
- Pulsing Mode
- Operates Over a Wide Temperature Range
- Extreme Accuracy and Repeatability
- Time can be Extended to Hours

TIME SELECTION TABLE				
Range #	Time Selector SW. Position 1 2 3 4	Range Value	Time Range	Time Range In Seconds
1	0 0 0 0	1	1s- 2m	1-120
2	1 0 0 0	3	2m- 5m	120-300
3	0 1 0 0	5	6m- 9m	360-540
4	1 1 0 0	7	10m-13m	600-780
5	0 0 1 0	9	14m-17m	840-1020
6	1 0 1 0	11	18m-22m	1080-1320
7	0 1 1 0	13	23m-26m	1380-1560
8	1 1 1 0	15	27m-30m	1620-1800
9	0 0 0 1	17	31m-34m	1860-2040
10	1 0 0 1	19	35m-37m	2100-2220
11	0 1 0 1	21	39m-41m	2340-2460
12	1 1 0 1	23	43m-46m	2580-2760
13	0 0 1 1	25	48m-50m	2880-3000
14	1 0 1 1	27	52m-54m	3120-3240
15	0 1 1 1	29	56m-58m	3360-3480
16	1 1 1 1	31	60m-62m	3600-3720

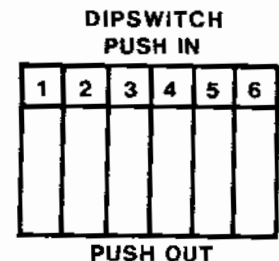
IN-1 OUT-0

### Procedure For Setting Delay Time

1. Convert desired delay time to seconds. (1 Min. = 60 Sec.)
2. Select range in which desired delay time falls. Note the corresponding "range value".
3. The formula for calculating the Time Adjustment setting is as follows:  

$$\text{Time Adjustment Setting} = \frac{\text{Delay Time (in seconds)}}{\text{Range Value}}$$
4. Input the delay time, (in seconds), and the range value into the formula.
5. The resultant number is the Time Adjustment setting. This will be a number between 1 and 120.
6. Position the Time Selector switches to the 0 0 0 0 setting. Position the Mode Selector switches to 1 1 setting. Turn the Time Adjustment to the Min. position, (fully CCW).
7. Connect the proper input voltage, (6 to 18 VDC).
8. Start timer by applying correct trigger input.
9. The LED timing indicator will light. LED will go off when timing is complete.
10. Adjust the Time Adjustment for the calculated setting.
11. Repeat steps 8 and 9.
12. When the correct Time Adjustment setting has been obtained, set the appropriate Time Selector switches to the selected time range.
13. Position Mode Selector switches to the desired timing mode.

MODE SELECTION	
Mode Selector SW. Position 5 6	Mode
0 0	Pulsing
1 0	Delay On Operate
0 1	Delay On Release
1 1	One Shot



### SPECIFICATIONS

- Voltage Range:** 6 to 18 VDC
- Current Consumption:** 37 Ma. Max.
- Time Range:** 1 Second to 1 Hour
- Temperature Range:** -25C to +70C
- Contact Rating:** 3A. @ 28 VDC
- Mounting:** DOUBLE COATED FOAM TAPE
- Size:** 2 1/8 x 5 3/16 (28.1 mm x 131.7 mm)

**ALARM CONTROLS CORPORATION**

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# UNIVERSAL TIMER

## DELAY ON OPERATE

The delay begins when trigger voltage is applied. At the end of the delay time, contacts transfer and remain in this position until trigger voltage is removed. Typical application: digital dialer delay; bell delay; bell cut off; tape delay.

## DELAY ON RELEASE

Contacts transfer immediately when trigger voltage is applied. The delay begins with the removal of the trigger voltage. If trigger voltage is not removed, contacts will not retransfer. Typical application: swinger eliminator.

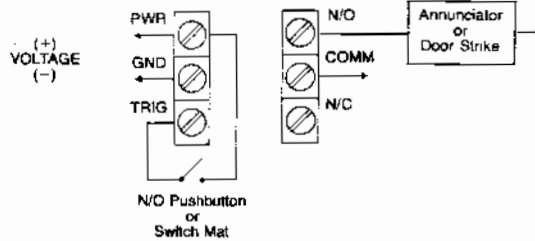
## ONE SHOT

A momentary or sustained application of trigger voltage will cause the contacts to transfer and remain until the end of the delay period, at which time contacts retransfer. Trigger voltage does not have to be removed for the contacts to retransfer. Typical applications: annunciator, door strike; exit delay.

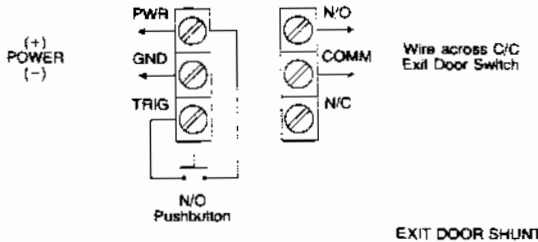
## PULSING

Contacts will transfer and retransfer with equal operate and release time. Typical application: bell pulser; lamp flasher.

## ONE SHOT MODE

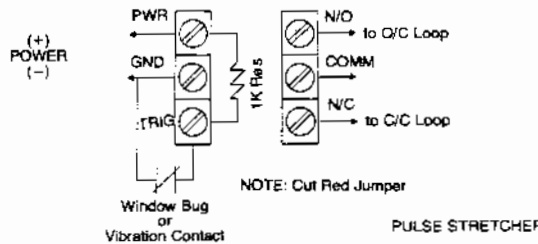


## ONE SHOT MODE



EXIT DOOR SHUNT

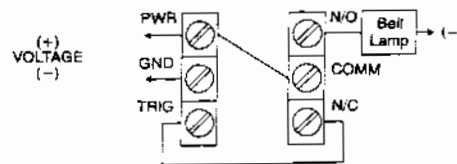
## ONE SHOT MODE



NOTE: Cut Red Jumper

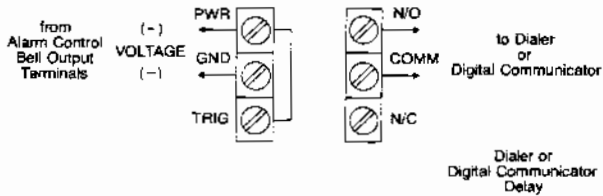
PULSE STRETCHER

## PULSING MODE

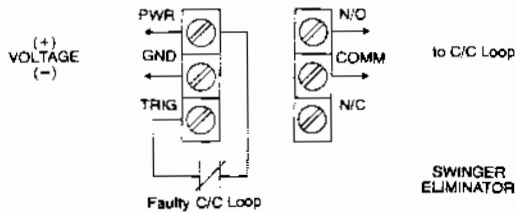


BELL PULSER  
LAMP FLASHER

## DELAY ON OPERATE MODE

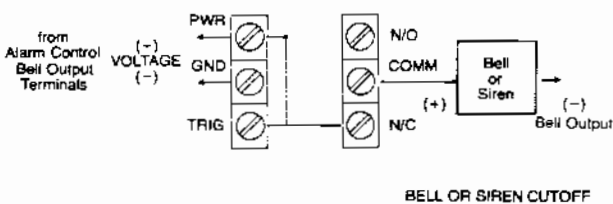


## DELAY ON RELEASE MODE



SWINGER  
ELIMINATOR

## DELAY ON OPERATE MODE



BELL OR SIREN CUTOFF

## ONE YEAR LIMITED WARRANTY

ALARM CONTROLS CORPORATION ("Seller"), 19 BRANDYWINE DRIVE, DEER PARK, NY 11729, warrants its security equipment (the "product") to be free from defects in materials and workmanship for one year from date of original purchase, under normal use and service. Seller's obligation is limited to repairing or replacing, at its option, free of charge for parts, labor, or transportation, any part proven to be defective in materials or workmanship under normal use and service. Seller shall have no obligation under this warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than the Seller. In case of defect, contact the security professional who installed and maintains your security system or the Seller for product repair.

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