



DESCRIPTION

THE AUTOMATION DISPLAYS INC. COUNTDOWN TIMER IS A TWO DIGIT PRESETTABLE ELAPSED TIME DISPLAY. EACH DIGIT IS .80 INCH HIGH LED. IT IS POWERED BY AN EXTERNAL 24VDC POWER SUPPLY.

THERE ARE THREE CONNECTORS TO MAKE TO THE COUNTDOWN TIMER. ONE PIN OF THREE PIN MOLEX CONNECTOR IS FOR +24VDC POWER. ANOTHER PIN IS FOR THE DC COMMON. THE THIRD PIN IS CONNECTED TO ONE SIDE OF A NORMALLY OPEN CONTACT. THE OTHER SIDE OF THE NORMALLY OPEN CONTACT SHOULD BE CONNECTED TO DC COMMON.

WHEN THE CONTACT IS OPEN, THE TIMER DISPLAYS THE PRESET COUNT (NUMBER OF SECONDS). WHEN THE CONTACT CLOSSES, THE TIMER BEGINS TO COUNT DOWN TO ZERO. IT WILL HALT WHEN IT REACHES ZERO IF THE CONTACT REMAINS CLOSED. WHENEVER THE CONTACT OPENS, THE DISPLAY RETURNS TO THE PRESET COUNT. THE PRESET COUNT IS DETERMINED BY THE SETTINGS OF THE TWO DIP SWITCHES ON THE PRINTED CIRCUIT BOARD. EACH SWITCH CAN BE SET FOR THE BINARY EQUIVALENT OF THE DIGITS 0 THRU 9, ALLOWING A MAXIMUM COUNT OF 99 SECONDS.

THE SPEED OF THE TIMER CAN BE ADJUSTED +/- 15% AROUND A TRUE ONE SECOND PER COUNT. ADJUSTMENTS ARE MADE BY A POTENTIOMETER LOCATED ON THE PRINTED CIRCUIT BOARD.



DIP SWITCH SETTINGS

1=ON, 0=OFF

| SW # | 1 | 2 | 3 | 4 |
|-------|---|---|---|---|
| DIGIT | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 1 |
| | 0 | 0 | 1 | 0 |
| | 0 | 1 | 0 | 0 |
| | 0 | 1 | 1 | 0 |
| | 1 | 0 | 0 | 0 |
| | 1 | 0 | 1 | 0 |
| | 1 | 1 | 0 | 0 |
| | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | 1 |
| | 0 | 0 | 1 | 1 |
| | 0 | 1 | 0 | 1 |
| | 0 | 1 | 1 | 1 |
| | 1 | 0 | 0 | 1 |
| | 1 | 0 | 1 | 1 |
| | 1 | 1 | 0 | 1 |
| | 1 | 1 | 1 | 1 |

AUTOMATION DISPLAYS INC.

COUNTDOWN TIMER

CMOS VERSION

SCALE DRAWN BY **SMJ** DATE **9/1/02** REV. NO. **1** DRAWING NO. **14490-100**