



Solving your relay requirements since 1922

Amperite Co.

(800) 752-2329  
www.Amperite.com

## SWPDC Series TDR



- ... Solid state CMOS digital circuitry
- ... Delay on operate timing mode
- ... DPDT (2 form C) isolated 10 ampere relay contacts
- ... Timing selection: 5 position binary coded Dip Switch plus vernier knob adjustment
- ... Twenty overlapping timing ranges covering .25 secs. to 160 hours.
- ... UL File#E96739 (M)
- ... CSA File #LR62586

### Timing Mode:

Delay on operate timing cycle begins upon application of input power. The relay contacts transfer at the end of the delay period and will remain transferred until input voltage is removed. Reset occurs when input voltage is removed.

### Timing Diagram:



### Contact Information:

Arrangement: 2 form C (DPDT) - Diagram C

Contact Material: Silver - Cadmium Oxide

Rating (Resistive): 10A @ 240V AC Resistive, 15A @ 30V DC Resistive, 15A @ 120V AC Resistive, 1/3 HP @ 120V AC, 1/2 HP @ 250V AC

Expected Life @ 25°C: 10 Million operations, Mechanical 100,000 operations minimum at rated loads

### Environmental Information:

Temperature Range: Storage: -60°C to +105°C (-76°F to +221°F) Operating: -45°C to +70°C (-49°F to +158°F)

### Mechanical Information:

Termination: 8 pin Octal Style Plug or 11 pin spade terminals. (Diagram C&D).



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Enclosure: White plastic case with a dial scale for reference only. LSWPDC version has a black case.

Weight: 4oz (114g) approx.

**Outline Dimensions:**

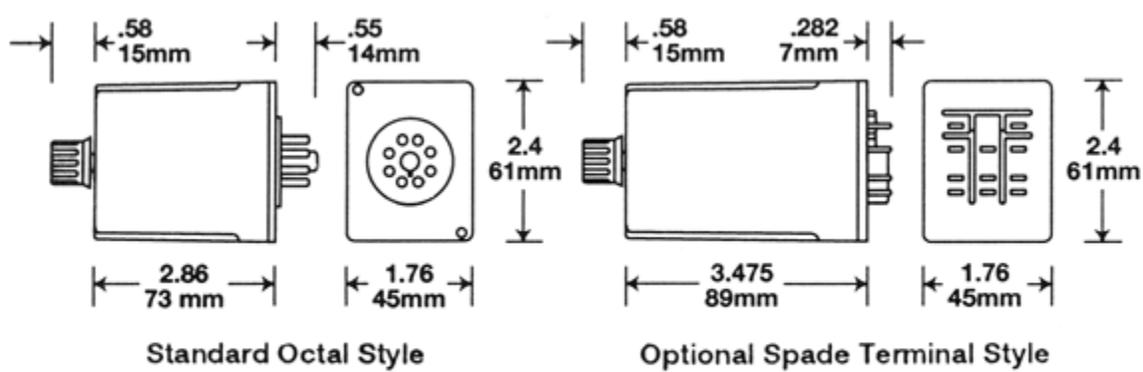


Diagram A

Diagram B

**Timing Specifications:**

Standard Timing: The SWPDC has 20 overlapping timing ranges covering 0.25 secs. to 160 hours. Timing is user selectable by means of a 5 position binary coded Dip Switch and a knob adjustable potentiometer allowing the time delay within the selected timing range to be set precisely.

Timing Adjustment: 5 position binary Dip Switch coded as follows:

Timing Range	Measure	Switch Setting 12345
.25 - 1.25	Seconds	00101
.5 - 2.5	Seconds	10101
1 - 5 Sec.	Seconds	01101
2 - 10	Seconds	11101
4 - 20	Seconds	00011
8 - 40	Seconds	10011
16 - 80	Seconds	01011



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32 - 160	Seconds	11011
1 - 5	Minutes	00111
2 - 10	Minutes	10111
4 - 20	Minutes	01111
9 - 42	Minutes	11111
17 - 85	Minutes	00010
34 - 170	Minutes	10010
1 - 5	Hours	01010
2 - 10	Hours	11010
4 - 20	Hours	00110
8 - 40	Hours	10110
16 - 80	Hours	01110
32 - 160	Hours	11110

Set Switches #1 thru #5 to desired position where:

1 = On, 0 = Off

Repeatability:  $\pm 1\%$

Release Time: 60 ms typical, 100 ms maximum

Timing Cycle Interrupt Transfer: none

Reset: Upon interruption of power

**Initial Dielectric Strength:**

Between open contacts: 1000V RMS,

Between adjacent contacts: 1500V RMS,

Between contacts & coil: 1500V RMS

**Input Information:**

Voltage: 12V - AC or DC, 24V - AC or DC, 48V DC, 110V DC, 120V AC. **Other voltages are available.**

Power Requirement: AC inputs: 3 VA or less, DC inputs: 3 Watts or less

Transient Protection: 1 JOULE MOV

Polarity Protection: On DC inputs - Yes



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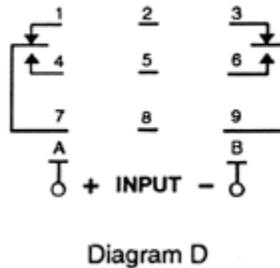
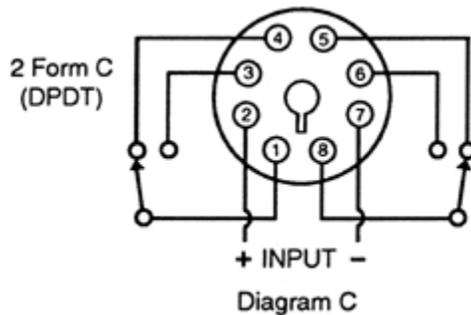
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### Input Voltages & Limits:

Nominal	Minimum	Maximum
12V AC	10V	14V
24V AC	20V	28V
120V AC	105V	130V
12V DC	11V	14V
24V DC	20V	32V
48V DC	41V	55V
110V DC	95V	125V

### Wiring Diagram:

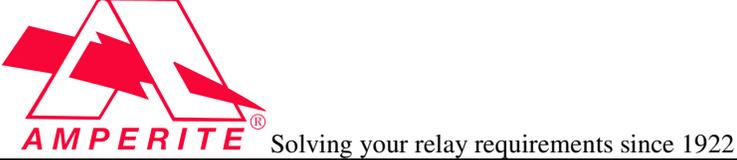


### Ordering Information:

Definition of a part number for the Amperite SWPDC Series Time Delay Relay.

Example:

120    —    L    SWPDC  
 ↑    ↑    ↑    ↑  
 A    B    C    D

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**A:** Denotes nominal input voltage. Voltages available: 12V - AC or DC, 24V - AC or DC, 48V DC, 110V DC or 120V AC. **Custom Voltages are available.**

**B:** For custom voltages only - denotes type of input current required for operation:  
A = AC - Alternating Current, D = DC - Direct Current

**C:** Enter "L" if optional 11-pin spade terminals are required (Dia. B & D).

**D:** Denotes DPDT (2 form C) 10 ampere CMOS delay on operate SWPDC Series Time Delay with binary coded five position Dip Switch & built in potentiometer.

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