

**Economical model for
Single-Shot Interval
operation**



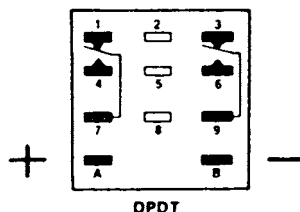
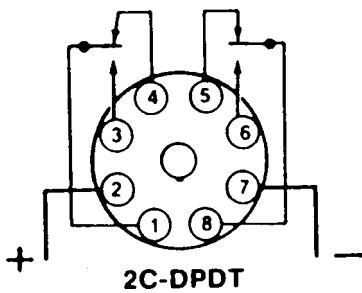
- Inexpensive and compact fixed or adjustable time delay
- Models feature plug-in octal base or square base design; plug-in square base also features universal blade type terminals for solder or quick connect terminals; printed circuit terminals are available on square base units (see ordering information)
- Polycarbonate dust cover has low moisture absorption and high impact strength
- Delay time is obtained by using a CMOS integrated circuit, an internal potentiometer controlled oscillator, a programmable binary counter, and output controlled logic
- Available in five voltages and DPDT 10 ampere output contacts
- Gold diffused low-level contacts optional
- Available in 15 standard time ranges from .1 second to 4.5 hours
- Optional flange mounting
- Push to test, simulating power on condition, optional
- Indicator light - on when power is applied to timer (standard on this series)
- All standard configurations recognized under the components program of Underwriters Laboratories, Inc. - file E39906, CSA certified by request only - file LR26861

SPECIFICATIONS

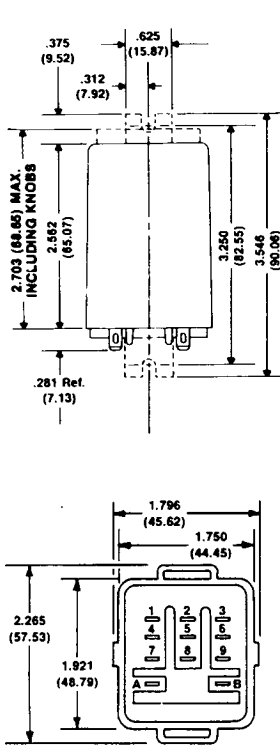
- Repeat Timing Accuracy:** $\pm 1.5\%$ under fixed conditions
- Fixed Time Accuracy:** $\pm 5\%$ at rated voltage and room temperature (99 time range)
- Reset Time:** 100 milliseconds min.
- Drop-Out Speed:** 30 milliseconds typical (including bounce)
- Input Voltage Variation:** Rated voltage +10%, -15%
- Polarity Protection:** Inverse polarity protection on DC units
- Transient Protection:** Immune to 600 volts peak transients up to 50 microseconds in duration
- Insulation Resistance:** 100 megohms min.
- Dielectric Strength:**
500 volts R.M.S.
60 Hz between open contacts
1500 volts R.M.S.
60 Hz between all elements
- Operating Temperature Range:** 14° to 104°F (-10° to 40°C)
- Storage Temperature Range:** -4° to 185°F (-20° to 85°C)
- Life Expectancy Mechanical:** In excess of 10 million operations
- Electrical:** 100,000 min. at full rated load
- Duty Cycle:** Continuous

OUTPUT RATING

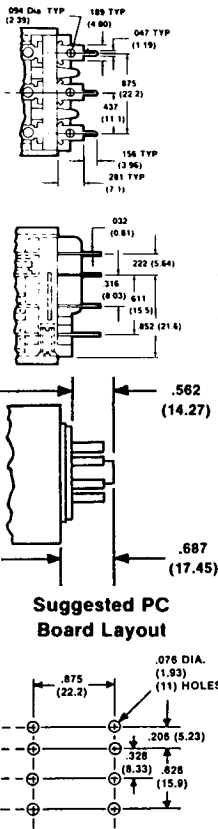
Materials	Rating
Silver	10 amp, 28 VDC (resistive)
Cadmium	10 amp, 250 VAC
Oxide	1/4 HP, 250 VA, 125 VAC
(AgCdO)	1/3 HP, 240 VA, 250 VAC



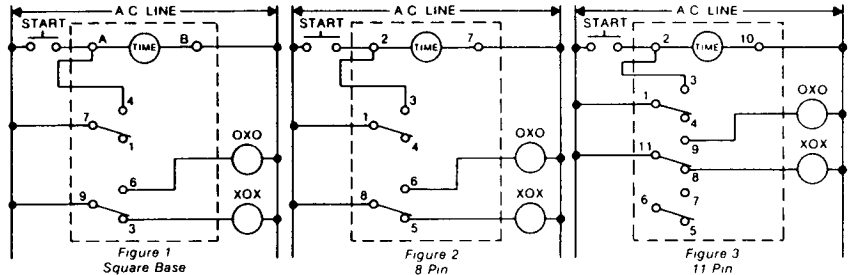
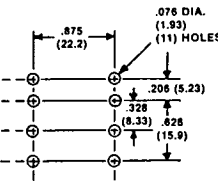
Flanged Case



Printed Circuit

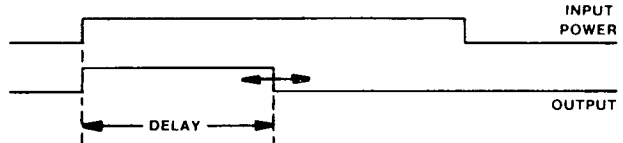


Suggested PC Board Layout



ONE SHOT — Momentary or Maintained start switch. Close switch to start timing. Resets automatically using momentary start. Resets upon opening maintained switch. Relay contacts provide interval sequence (OXO, XOX). Contacts 4-7 (E and H Series) must be wired as shown for one shot control (Figure 1). For Q Series wire contacts 3-1 as shown in Figures 2 and 3.

Logic Function Diagram



Interval: Upon application of power, timing begins and output relay is energized. Output relay de-energizes at time-out. Removal of input power resets timer.

	Sockets	Retainers
Type Q	60SR2P05	N/A
2C	60SR2P06	60SFA201 Clip
	60SR2P51	N/A
Type E	60SR3B05	60SFA201 Clip
Square	60SR3B51	N/A
Base	4270-0681	N/A

ORDERING INFORMATION

84 **E** **2** **A6** **04**

RELAY TYPE

Sym.	Description
	Time Delay Relay

CONTACT MATERIALS

Sym.	Description
E	Silver Cadmium Oxide, 10 amp, Universal Plug-In, .187 Solder, Quick Connect
H	Silver Cadmium Oxide, 10 amp, Printed Circuit, Special Order Only
Q	Silver Camium Oxide, 10 amp, Plug-In, 8 Pin (Octal)

CONTACT FORM

Sym.	Description
2	DPDT

VOLTAGE & FREQUENCY

Sym.	Description
Z6	24V 60 Hz
A6	120V 60 Hz
B6	240V 60 Hz

TIME RANGE

Sym.	Description	Sym.	Description
00	Unprogrammed	09	25.6 - 256 Sec.
01	.1 - 1 Sec.	10	.85 - 8.5 Min.
02	.2 - 2 Sec.	11	1.7 - 17 Min.
03	.4 - 4 Sec.	12	3.4 - 34 Min.
04	.8 - 8 Sec.	13	6.8 - 68 Min.
05	1.6 - 16 Sec.	14	13.6 - 136 Min.
06	3.2 - 32 Sec.	15	.45 - 4.5 Hr.
07	6.4 - 64 Sec.	99	Fixed Timing (Specify Time)
08	12.8 - 128 Sec.		