


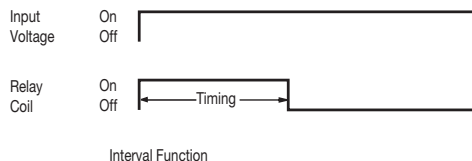
# Interval (Relay Output) Q4T Series

## FEATURES

- 100% functionally tested
- Solid state digital timing
- Time delays to 10 hours standard
- 20:1 maximum to minimum timing ratio
- Sealed S.P.D.T output contacts
- Compact size
- Superior transient protection
- Epoxy encapsulated
- Flame-retardant and solvent-resistant polyester thermoplastic housing
- Trimpot on-board with sealed cermet element
-  File #E65038

**Operating Logic:** Upon application of voltage to the input terminals, the relay is energized, the contacts transfer and the timing cycle starts. At the end of the preset time delay, the relay coil is de-energized and the contacts return to their original state. Reset is accomplished by removing voltage from the input terminals.

## LOGIC FUNCTION DIAGRAM



## ORDERING INFORMATION

TIME RANGE	120 VAC $\pm 10\%$
.05 to 1 sec.	Q4T-00001-341
.25 to 5 sec.	Q4T-00005-341
.5 to 10 sec.	Q4T-00010-341
3 to 60 sec.	Q4T-00060-341
15 to 300 sec.	Q4T-00300-341
30 to 600 sec.	Q4T-00600-341
18 to 3600 sec.	Q4T-03600-341

## SPECIFICATIONS

### TIME DELAY

**Adjustment:** On-board Trimpot

**Range:** 50 ms to 1 hour in 7 ranges

**Repeatability:**  $\pm 0.5\%$  max. (0.25% typical) at constant temperature

### Accuracy:

Maximum time +10%, -0%

Minimum time -30%, +0%, -45%, +10% for 50 ms only

**Reset Time:** .25 sec. max., by removal of the input voltage

### INPUT

**Operating Voltage:** 120 VAC  $\pm 10\%$ . Line voltage with high inductive voltage noise could affect timer performance. Adding transorb or MOV at noise source (for example, contactors, coil, motor) is recommended.

**Power Consumption:** 3.5 VA max.

**Frequency:** 50/60 Hz

### OUTPUT

**Type:** Relay contacts, SPDT (1 form C)

**Rating:** 8 A max. resistive at 250 VAC and 30 VDC; 100 mA at 5 VDC min. load current

### Life:

Mechanical: 10,000,000 cycles;

Electrical: 100,000 min. at full load

### PROTECTION

**Transient Voltage:** 1000 P.I.V. components used

**Isolation Resistance:** 100 megohms min. between terminals and case

**Dielectric Breakdown:** 3000 VAC, RMS, terminals to mounting; 1500 VAC, RMS, input to output

### MECHANICAL

**Termination:** .25" x .032" male fast-on terminals

**Mounting:** Surface mount with one #8 screw

### ENVIRONMENTAL

**Storage Temperature:** -40°C to 70°C

**Operating Temperature:** -40°C to 70°C

**Humidity:** 95% relative

