

NCC

National Controls Corporation

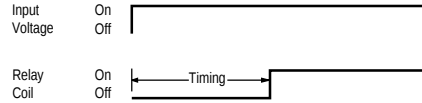
Phone **800-323-2593**
630-231-5900
 Fax **630-231-1377**

Features

-  File #E59090
- 100% Life Tested
- No False Contact Transfer When Reset During Timing
- Digital Timing Circuit.
- Time Delays To 10 Hours *
- Compact In Size
- Spade Type Base
- Low Cost
- Wide Operating Temperature Range
- Fiberglass Reinforced Circuit Board
- Polycarbonate, 94V-2 Housing Material
- Made in U.S.A.



Logic Function Diagram:



Specifications

Time Delay

Adjustment: Knob or external resistor, factory fixed on special order (Minimum order required)

Range: 100 mS to 10 minutes in 9 ranges *

Repeatability: $\pm .5\%$ at constant temperature and reset time, but not less than 16 mS.

Accuracy: Max. Time $+(10\%, +20\text{mS}) / -0\%$
 Min. Time $-50\% / +(0\%, +20\text{mS})$

Reset Time: 80 milliseconds max.

Input

Operating Voltage: 24, 120 VAC; 12, 24 VDC $\pm 10\%$ (D.C. models have reverse polarity protection. Unfiltered input voltage to them must be full-wave rectified)

Power Consumption: 3 VA maximum

Frequency: 50/60 Hz (AC Units)

Output

Type: Relay Contacts, D.P.D.T. (2 form C) Silver Cad. Oxide material

Rating: 10 amp. max. resistive at 240 VAC; 100 mA at 5 VDC min. load current

Life: Mechanical - 1,000,000 operations
 Full Load -150,000 operations

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Time Delay Relays

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Delay On Make K1 Series

Operating Logic: Upon application of voltage to the input terminals, the time delay cycle starts. At the end of the preset time delay, the relay coil is energized and the contacts transfer. Reset is accomplished by the removal of input voltage.

Note 1) Remote potentiometer leads should be shielded when running close to other wires; 2) The minimum time setting on external resistor-adjustable time delay relays is obtained by shorting together the external resistor terminals of the relay; 3) The maximum time setting within tolerance limits is obtained by using a 1 megohm resistor ; 4) Timing values between the minimum and maximum limits are linear with resistance within 10%; 5) Recommend 1/4 watt minimum resistor be used.

Protection

Transient Voltage: 12 & 24 volt timers are protected by an 1 joule metal oxide varistor; 120 & 240⁺ volt timers are protected by a 5 joule metal oxide varistor.

Dielectric Breakdown: 1500 VAC, RMS minimum at 60 Hz between input and outputs and between outputs

Mechanical

Termination: Spade (.187"x.020" terminal) type plug-in base

Mounting:

Socket Mount - Part Number MSO-00KUP-012 or Flange Mount

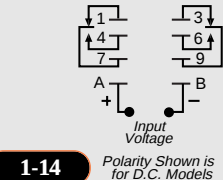
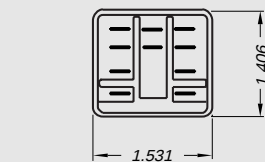
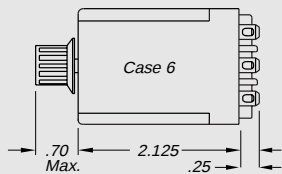
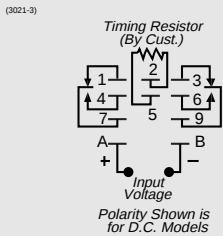
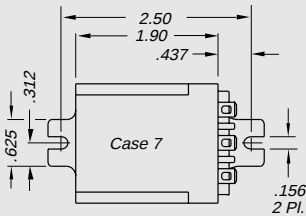
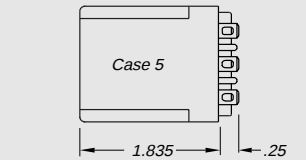
Environmental

Storage Temperature: -23°C to 70°C

Operating Temperature: -23°C to 55°C

* Due to a redesigned digital timing circuit, the K1 Series now offers a greater time range capability; up to 10 hours. Consult factory for details.

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Polarity Shown is for D.C. Models

Input Voltage and Appropriate Part Numbers					
Time Range	12VDC Knob Adjst. Case 6	12VDC Remote Pot Case 5	24VDC Knob Adjst. Case 6	24VDC Remote Pot Case 5	240VAC Knob Adjst. Case 6
.1-2 Seconds	⌘	⌘	⌘	⌘	⌘
.1-5 Seconds	K1K-00005-666	⌘	K1K-00005-662	⌘	⌘
.1-10 Seconds	K1K-00010-666	K1F-00010-566	K1K-00010-662	K1F-00010-562	⌘
.3-30 Seconds	K1K-00030-666	K1F-00030-566	K1K-00030-662	K1F-00030-562	⌘
.6-60 Seconds	K1K-00060-666	K1F-00060-566	K1K-00060-662	K1F-00060-562	⌘
1.2-120 Seconds	K1K-00120-666	K1F-00120-566	K1K-00120-662	K1F-00120-562	⌘
1.8-180 Seconds	K1K-00180-666	⌘	K1K-00180-662	⌘	⌘
3-300 Seconds	K1K-00300-666	⌘	K1K-00300-662	⌘	K1K-00300-661

Input Voltage and Appropriate Part Numbers					
Time Range	24VAC Knob Adjst. Case 6	24VAC Remote Pot Case 5	120VAC Knob Adjst. Case 6	120VAC Remote Pot Case 7	120VAC Remote Pot Case 5
.1-2 Seconds	⌘	⌘	K1K-00002-661	K1F-00002-761	K1F-00002-561
.1-5 Seconds	K1K-00005-667	⌘	K1K-00005-661	K1F-00005-761	K1F-00005-561
.1-10 Seconds	K1K-00010-667	K1F-00010-567	K1K-00010-661	K1F-00010-761	K1F-00010-561
.3-30 Seconds	K1K-00030-667	K1F-00030-567	K1K-00030-661	K1F-00030-761	K1F-00030-561
.6-60 Seconds	K1K-00060-667	⌘	K1K-00060-661	K1F-00060-761	K1F-00060-561
1.2-120 Seconds	K1K-00120-667	K1F-00120-567	K1K-00120-661	K1F-00120-761	K1F-00120-561
1.8-180 Seconds	K1K-00180-667	⌘	K1K-00180-661	K1F-00180-761	K1F-00180-561
3-300 Seconds	K1K-00300-667	⌘	K1K-00300-661	K1F-00300-761	K1F-00300-561
6-600 Seconds	K1K-00600-667	⌘	K1K-00600-661	K1F-00600-761	K1F-00600-561

Optional Potentiometer: Part Number ASY-0001M-450

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