

# Time Delay Relays

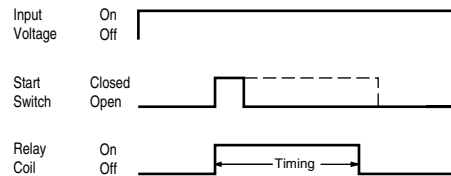
## Single Shot K2 Series

**Operating Logic:** Voltage is applied to the timer at all times. Upon a momentary or maintained closure of a normally open isolated start switch, the output relay coil is energized and the time delay starts. At the end of the preset time delay, the relay coil is de-energized and the timer is ready for a new cycle.

*Note: 1) Do not apply voltage or ground to the Start switch, 2) Switch leads should be shielded when running close to other wires (Start switch supplied by customer)*



### Logic Function Diagram:



### Specifications

#### Time Delay

**Adjustment:** Knob, factory fixed on special order (Minimum order required)

**Range:** 50 mS to 1 hour in 9 ranges

**Repeatability:**  $\pm 3\%$  at constant temperature

**Accuracy:** Maximum time +10% / -0%;  
Minimum time +0% / -50%

**Reset Time:** 200 milliseconds maximum

#### Input

**Operating Voltage:** 120 volt A.C.  $\pm 10\%$

**Start Switch Closure Time:** 50 milliseconds minimum

**Power Consumption:** 3 VA maximum

**Frequency:** 50/60 Hz

#### Output

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

**Rating:** 10 amp. max. resistive at 240 volts A.C.

100 mA at 5 VDC min. load current

**Life:** Mechanical -10,000,000 operations  
Full Load -500,000 operations

#### Protection

**Transient Voltage:** 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 MS0-00KUP-012

#### Environmental

**Storage Temperature:** -23°C to 70°C

**Operating Temperature:** -23°C to 55°C

*Due to a redesigned digital timing circuit, the K2 Series now offers a greater time range capability; up to 10 hours. Consult factory for details.*

### Ordering Information

Time Range	Input Voltage and Appropriate Part Numbers			
	12VDC	24VDC	24VAC	120VAC
.05-2 Second	⓪	⓪	⓪	K2K-00002-661
.05-5 Seconds	⓪	⓪	⓪	K2K-00005-661
1-10 Second	⓪	⓪	⓪	K2K-00010-661
6-60 Seconds	⓪	⓪	⓪	K2K-00060-661
1.2-120 Second	⓪	⓪	⓪	K2K-00120-661
1.8-180 Seconds	⓪	⓪	⓪	K2K-00180-661
3-300 Seconds	⓪	⓪	⓪	K2K-00300-661
6-600 Seconds	⓪	⓪	⓪	K2K-00600-661
36-3600 Seconds	⓪	⓪	⓪	K2K-03600-661

⓪ Call For Availability

**AMETEK NCC**  
National Controls Corp.

Phone 800-323-2593

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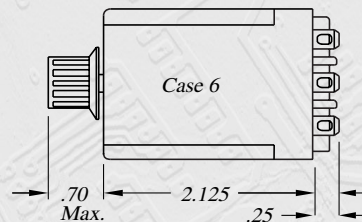
Internet [www.natcon.com](http://www.natcon.com)

[www.nationalcontrols.com](http://www.nationalcontrols.com)

### Features

- File #E59090
- 100% Life Tested
- 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.

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