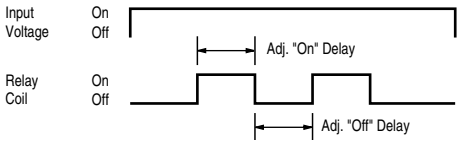
Time Delay Relays

Repeat Cycle
CKK Series

Operating Logic: Upon application of voltage to the input terminals, the "off" delay is initiated. At the end of the "off" preset time, the relay coil is activated and the "on" delay starts. At the end of the "on" preset time, the relay coil is de-activated and a new cycle begins. The "on" and "off" cycles will continue to alternate until voltage is removed.



Logic Function Diagram:



Specifications

Time Delay
Adjustment: Knobs, factory fixed on special order (Minimum order required)
Range: 50 mS to 10 hours in 14 ranges
Repeatability: ± 1% at constant temperature
Accuracy: Maximum time -0%, + 10%;
Minimum time +0%, -50%
Reset Time: 500 milliseconds maximum

Input
Operating Voltage: 12, 24 VDC; 24, 120 VAC ± 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

Output
Type: Relay 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: 12 and 24 volt timers are protected by an 8.8 joule metal oxide varistor 120 volt timers are protected by a 30 joule metal oxide varistor
Dielectric Breakdown: 1500 volts RMS minimum at 60 Hz between input and outputs and between outputs

Mechanical
Termination: 8-pin plug
Mounting:
Socket Mount - Part Number MSO-0008P-012

Environmental
Storage Temperature: -23°C to 70°C
Operating Temperature: -23°C to 55°C

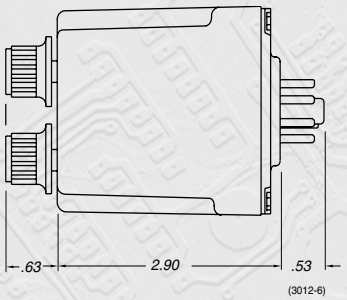
Ordering Information

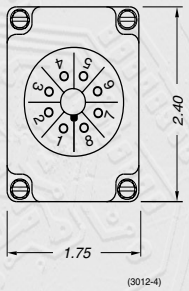
Input Voltage and Appropriate Part Numbers				
Time Range	**12VDC**	**24VDC**	**24VAC**	**120VAC**
.05 -2 Seconds	✆	✆	✆	CKK-00002-461
.05 -5 Seconds	✆	✆	✆	CKK-00005-461
.1-10 Seconds	CKK-00010-466	CKK-00010-462	CKK-00010-467	CKK-00010-461
.3-30 Seconds	CKK-00030-466	CKK-00030-462	CKK-00030-467	CKK-00030-461
.6-60 Seconds	CKK-00060-466	CKK-00060-462	CKK-00060-467	CKK-00060-461
1.2-120 Seconds	✆	✆	✆	CKK-00120-461
1.8-180 Seconds	CKK-00180-466	CKK-00180-462	CKK-00180-467	CKK-00180-461
3-300 Seconds	✆	✆	✆	CKK-00300-461
6-600 Seconds	✆	✆	✆	CKK-00600-461
18-1800 Seconds	✆	✆	✆	CKK-01800-461
36-3600 Seconds	CKK-03600-466	CKK-03600-462	CKK-03600-467	CKK-03600-461
72-7200 Seconds	✆	✆	✆	CKK-07200-461
180-18000 Seconds	✆	✆	✆	CKK-18000-461
360-36000 Seconds	✆	✆	✆	CKK-36000-461

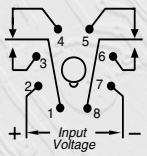
✆ **Call For Availability**

AMETEK NCC
National Controls Corp.
Phone 800-323-2593
630-231-5900
Fax 630-231-1377
Internet www.natcon.com
www.nationalcontrols.com

Features
- File #E59090
- 100% Life Tested
- Digital Timing Circuit
- Time Delays To 10 Hours
- ± 1% Repeatability
- Individually Adjustable "On" and "Off" times
- Fiberglass Reinforced Circuit Board
- Internal Components Supported By Heavy-duty Chassis
- Reinforced Base Locator Pin
- Polycarbonate Flame-Retardant Housing
- Made in U.S.A.







PIN CONFIGURATION
Polarity Shown is for D.C. Models