**Repeat Cycle**  
**CKK Series**  

**FEATURES**  
- 100% functionally 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  

**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 deactivated and a new cycle begins. The ON and OFF cycles will continue to alternate until the voltage is removed.

**LOGIC FUNCTION DIAGRAM**

**SPECIFICATIONS**

**TIME DELAY**
- **Adjustment:** Knobs, factory fixed on special order (min. order required)
- **Range:** 50 ms to 1 hour in 8 ranges
- **Repeatability:** ±1% at constant temperature
- **Accuracy:**
  - Maximum time -0%, +10%
  - Minimum time +0%, -50%
- **Reset Time:** 500 ms max.

**INPUT**
- **Operating Voltage:** 12, 24 VDC; 24, 120 VAC ±10% (DC models have reverse polarity protection; unfiltered input voltage to them must be full-wave rectified)
- **Frequency:** 50/60 Hz

**OUTPUT**
- **Type:** Relay DPDT (2 form C)
- **Rating:** 10 A max. resistive at 240 VAC; 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 V timers are protected by an 8.8 joule metal oxide varistor; 120 V timers are protected by a 30 joule metal oxide varistor
- **Dielectric Breakdown:** 1500 V RMS min. 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**

<table>
<thead>
<tr>
<th>TIME RANGE</th>
<th>12 VDC</th>
<th>24 VDC</th>
<th>24 VAC</th>
<th>120 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>.05 to 5 sec.</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>CKK-00005-461</td>
</tr>
<tr>
<td>.1 to 10 sec.</td>
<td>CKK-00010-466</td>
<td>CKK-00010-462</td>
<td>CKK-00010-467</td>
<td>CKK-00010-461</td>
</tr>
<tr>
<td>.6 to 60 sec.</td>
<td>CKK-00060-466</td>
<td>CKK-00060-462</td>
<td>CKK-00060-467</td>
<td>CKK-00060-461</td>
</tr>
<tr>
<td>1.8 to 180 sec.</td>
<td>CKK-00180-466</td>
<td>CKK-00180-462</td>
<td>CKK-00180-467</td>
<td>CKK-00180-461</td>
</tr>
<tr>
<td>3 to 300 sec.</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>CKK-00300-461</td>
</tr>
<tr>
<td>6 to 600 sec.</td>
<td>CKK-00600-461</td>
<td>—</td>
<td>—</td>
<td>CKK-00600-461</td>
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<tr>
<td>18 to 1800 sec.</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>CKK-01800-461</td>
</tr>
<tr>
<td>36 to 3600 sec.</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>CKK-03600-461</td>
</tr>
</tbody>
</table>

Consult factory for any special requirements not listed in catalog (minimum order requirement may apply).