**TNPL Timers**

The TN Single Shot on Make units meet the needs of customers who require IC digital timing circuits with octal, magnal round or QC bases for plug-in installation. The units are available in SPDT, DPST and DPDT relay forms up to 10 amp with fixed or adjustable time periods.

**Timing Mode**

Power must be applied to the input voltage terminals continuously. Upon closure of a Normally Open (N.O.) external initiate switch, the load is instantaneously energized and the time delay cycle starts.

Maintained closure or actuation of the external initiate switch during the delay cycle will not affect the time delay period.

When the delay period expires, the timer will reset to its original position and the timer is ready for another cycle.

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**FEATURES**

- CMOS IC digital timing
- Multi-board construction
- Relays are sealed
- Proven circuitry
- Standard octal (8 pin), magnal (11 pin) plug-ins or 4.75 mm (0.187”) blade terminal mountings
- Factory-fixed or variable time adjustment
- Optional remote time adjustment
- Timing ranges from 0.1 to 1000 seconds standard (special time settings and ranges up to 72 hours also available)
- ±0.1% Repeat accuracy
- 100% Operational testing before shipping

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**SPECIFICATIONS**

**Input Voltages:**

- VAC: 24, 120, 230, 50/60Hz
- VDC: 12, 24
  
  *Special AC and DC voltages available*

**Operating Voltage:** ±20% of nameplate voltage

**Relay Contact Ratings:**

- 5 amps DPDT, 10 amps DPDT Optional

**Repeat Accuracy:** ±0.1% under fixed operating conditions

**Reset Time:** 50 milliseconds

**Tolerances:**

- Fixed: ±10%, Optional: ±5%, ±1%
- Variable: ±20%, -0%, Optional: +10%, -0%

**Life Expectancy:**

- Mechanical: 1 million operations
- Electrical: Up to 100,000 operations at full current load

**Protection:**

- Polarity Protection: All DC units have reverse polarity protection.
- Transient Protection: 25 joules

**Temperature Ranges:**

- Storage: -40°C to +85°C
- Operating: -25°C to +65°C

**Housing Material:** High-impact, UL-approved black Lexan
**BASIC WIRING AND DIMENSIONS**

**SPDT**

- Alternate To Pin 5
- Control Switch
- Input Voltage

**DPDT**

- External Resistor / Pot.
- Control Switch
- Input Voltage

**DPDT**

- External Resistor / Pot.
- Control Switch
- Input Voltage

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**OPTIONAL KNOB**

- 0.55"
- 2.8"

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**OPTIONS SELECTION**

<table>
<thead>
<tr>
<th>Mode of Operation</th>
<th>Series</th>
<th>Input Voltage</th>
<th>Examples of Time Ranges</th>
<th>Tolerance</th>
<th>Time Adjust. Method</th>
<th>Base Style</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Shot On Make with Isolated Control Switch or Input Voltage Control Switch</td>
<td>TNPL</td>
<td>1  120 VAC  2  230 VAC  3  24 VAC  4  24 VDC  7  12 VDC  8  SPECIAL AC  9  SPECIAL DC</td>
<td>Variable Time Periods</td>
<td>X Standard (Fixed: ±10% Variable: ±20% -0%)</td>
<td>A Variable knob on timer</td>
<td>1 8 Pin Round Octal Base</td>
<td>X Standard 5 amps H 10 amps (8 amps UL Recognized for USA and Canada.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E Optional (Fixed, ±5%)</td>
<td>B Variable with external potentiometer AOT supplied</td>
<td>2 11 Pin Round Magnal Base</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>F Optional (Fixed, ±1%)</td>
<td>C Factory-fixed time</td>
<td>3 11 Pin Spade .187 Quick Connect</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>G Optional (Adjust.: +10%, -0%)</td>
<td>D Fixed time with customer supplied resistor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Variable knob on timer
- Variable with external potentiometer AOT supplied
- Factory-fixed time
- Fixed time with customer supplied resistor

**EXAMPLE**

- TNPL 3 0010 X A 1 H

This is a "TN" series timer, Single shot on make, 24 volt AC, 10 second variable time period (standard tolerance), with adjustment knob on timer, 8 pin octal base, 10 amp relay.

Specifications subject to change without notice.

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**CONTACT**

2747 Route 20 East, Cazenovia, NY 13035
315-655-8476  www.airotronics.com