

Timing Mode: **SINGLE SHOT ON MAKE**

Category: **TIMER WITH RELAY**

Series: **TNP**



## PLUG-IN, IC DIGITAL, DRY INITIATE SWITCH

PELCO COMPONENT TECHNOLOGIES • 855 227 3526



### TNP Timers

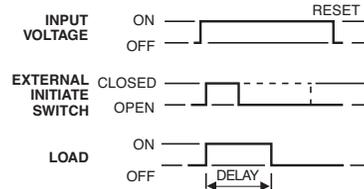
The TNP Single Shot on Make units meet the needs of customers who require IC digital timing circuits with octal, magnal round or QC bases for plug-in installation. The units are available in SPDT, DPST and DPDT relay forms up to 10 amp with fixed or adjustable time periods.

### Timing Mode

Power must be applied to the input voltage terminals continuously. Upon closure of an isolated 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.



## 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 or 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:

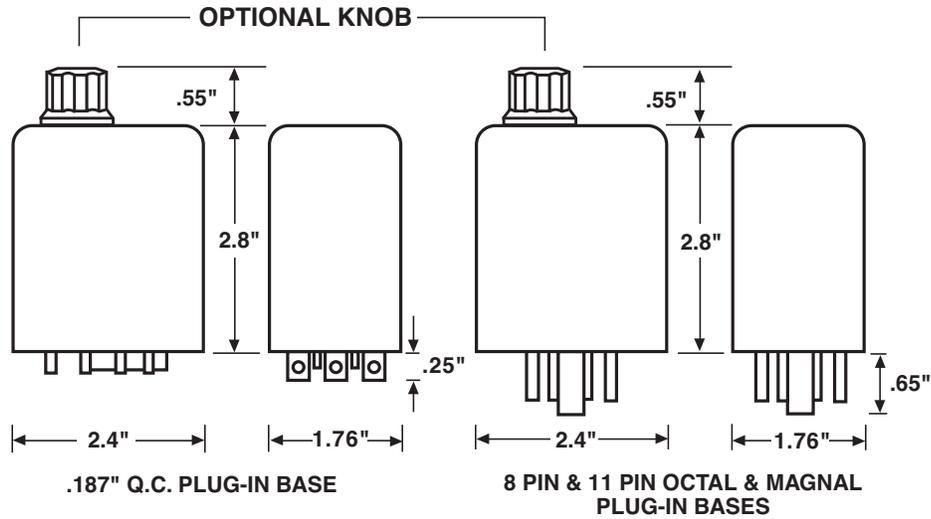
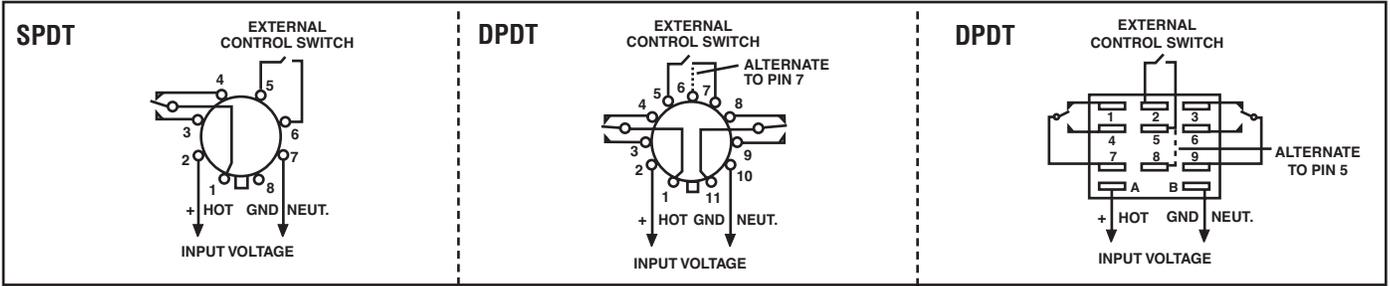
*Polarity Protection:* All DC units have reverse polarity protection.  
*Transient Protection:* 25 joules

### 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



072816

## OPTIONS SELECTION

| Mode of Operation          | Series             | Input Voltage | Examples of Time Ranges      | Tolerance   | Time Adjust. Method  | Base Style   | Options  |
|----------------------------|--------------------|---------------|------------------------------|---|--|--|--|
| <b>Single Shot On Make</b> | <b>TNP</b>         | 1 120 VAC     | <b>VARIABLE TIME PERIODS</b> |   | <b>X</b> Standard (Fixed: ±10% Variable: +20% -0%)<br><b>E</b> Optional (Fixed, ±5%)<br><b>F</b> Optional (Fixed, ±1%)<br><b>G</b> Optional (Adjust.: +10%, -0%) | <b>A</b> Variable knob on timer<br><b>C</b> Factory-fixed time | <b>1</b> 8 Pin Round Octal Base<br><b>2</b> 11 Pin Round Magnal Base<br><b>3</b> 11 Pin Spade .187 Quick Connect |
|                            |                    | 2 230 VAC     | 0001 .1 to 1 sec.            | Any range up to 72 hours available on special order.<br><b>FIXED TIME PERIODS</b><br>Specify time in full seconds or hours followed by the letter "S" or "H" and the decimal amount of the main time unit.<br>Examples: 5S5 is 5.5 secs<br>5H5 is 5.5 hours |  |  |  |
|                            |                    | 3 24 VAC      | 0010 .1 to 10 sec.           |   |  |  |  |
| 4 24 VDC                   | 0100 1 to 100 sec. |               |                              |   |  |  |  |
|                            |                    | 7 12 VDC      |                              |   |  |  |  |
|                            |                    | 8 SPECIAL AC  |                              |   |  |  |  |
|                            |                    | 9 SPECIAL DC  |                              |   |  |  |  |

**EXAMPLE**

|     |   |      |   |   |   |   |
|-----|---|------|---|---|---|---|
| TNP | 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.*