

Timing Mode: **INTERVAL ON**  
 Category: **TIMER WITH RELAY**  
 Series: **TNL**



PELCO COMPONENT TECHNOLOGIES • 855 227 3526

## PLUG-IN RELAY, IC DIGITAL

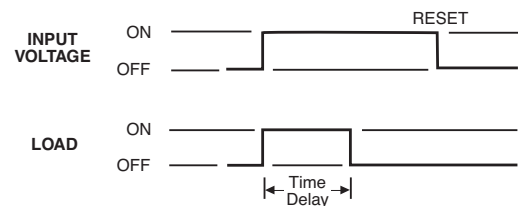


### TNL Timers


The TNL Interval On meets the needs of customers who require IC digital timing circuits with octal, magnal round and QC bases for plug-in installation. The units are available in SPDT and DPDT relay forms up to 10 amp with fixed or adjustable time periods.

### Timing Mode

Application of input voltage to the timer energizes the load and starts the time delay. At the end of the time delay, the load is de-energized. Removal and re-application of input voltage resets the timer.



## 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
- 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%

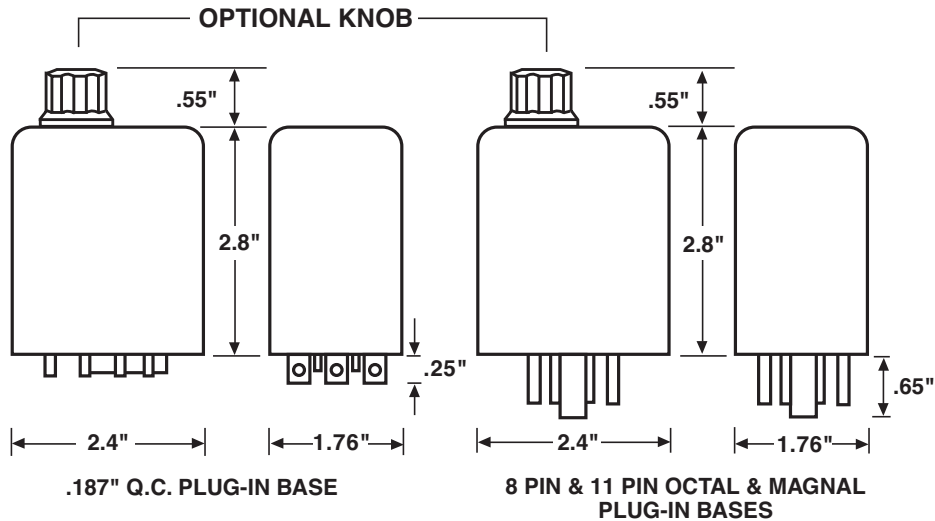
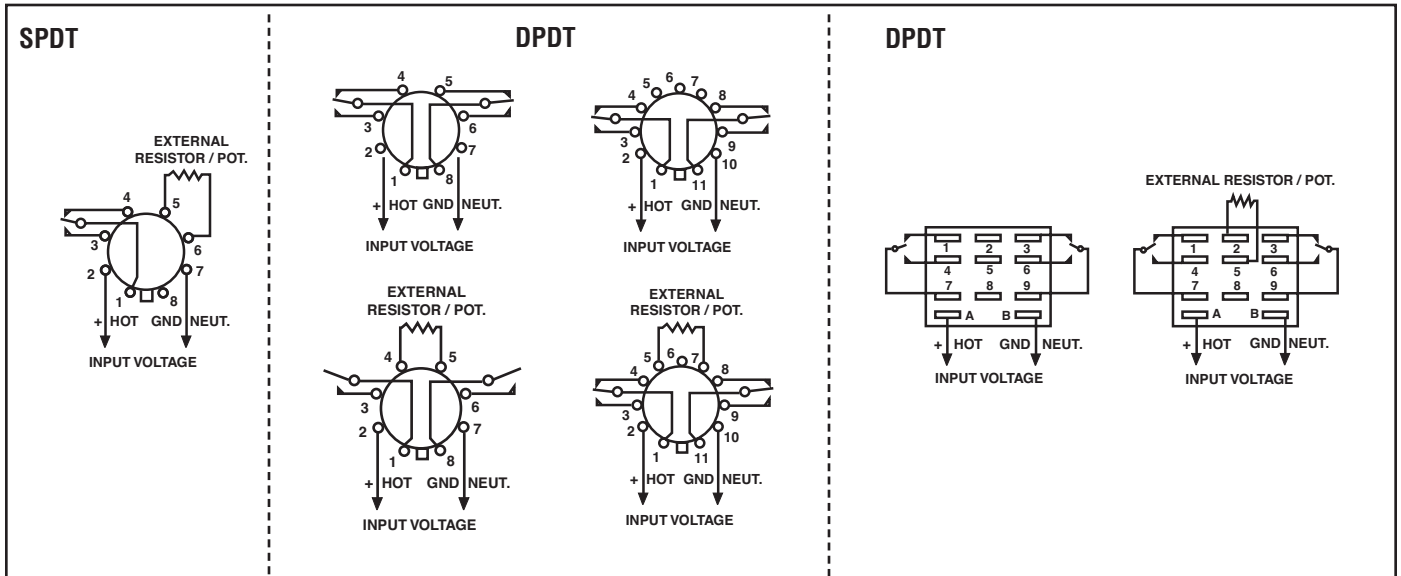
**Life Expectancy:**  
*Mechanical:* 1 million operations  
*Electrical:* Up to 100,000 operations at full current load

**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
Interval On	TNL	1 120 VAC	<b>VARIABLE TIME PERIODS</b> 0001 0.1 to 1 sec. 0010 0.1 to 10 sec. 0100 1 to 100 sec. 1000 10 to 1000 sec. Any range up to 72 hours available on special order. <b>FIXED TIME PERIODS</b> Specify time in full seconds or hours followed by the letter "S" or "H" and the decimal amount of the main time unit. Examples: 5S5 is 5.5 secs 5H5 is 5.5 hours	X Standard (Fixed: ±10% Variable: +20% -0%) E Optional (Fixed, ±5%) F Optional (Fixed, ±1%) G Optional (Adjust.: +10%, -0%)	A Variable knob on timer B Variable with external potentiometer AOT supplied C Factory-fixed time D Fixed time with customer supplied resistor	1-8 Pin Round Octal Base 2-11 Pin Round Magnal Base 3-11 Pin Spade .187 Quick Connect	X Standard 5 amps H 10 amps (8 amps UL Recognized for USA and Canada.)
		2 230 VAC 3 24 VAC 4 24 VDC 7 12 VDC 8 SPECIAL AC 9 SPECIAL DC					

EXAMPLE 

TNL	3	0010	X	A	1	H
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This is a "TN" series timer, Interval On, 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.*