

Timing Mode: **SINGLE SHOT ON MAKE**

Category: **TIMER WITH RELAY**

Series: **TNPL**

PLUG-IN, IC DIGITAL, HOT INITIATE SWITCH



TNPL Timers

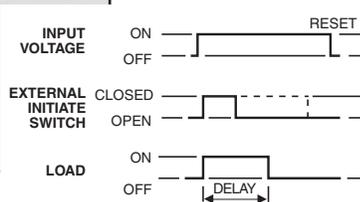
The TN Single Shot on Make units meet the needs of customers who require IC digital timing circuits with octal, magnal round or QC bases for plug-in installation. The units are available in SPDT, DPST and DPDT relay forms up to 10 amp with fixed or adjustable time periods.

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.



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:

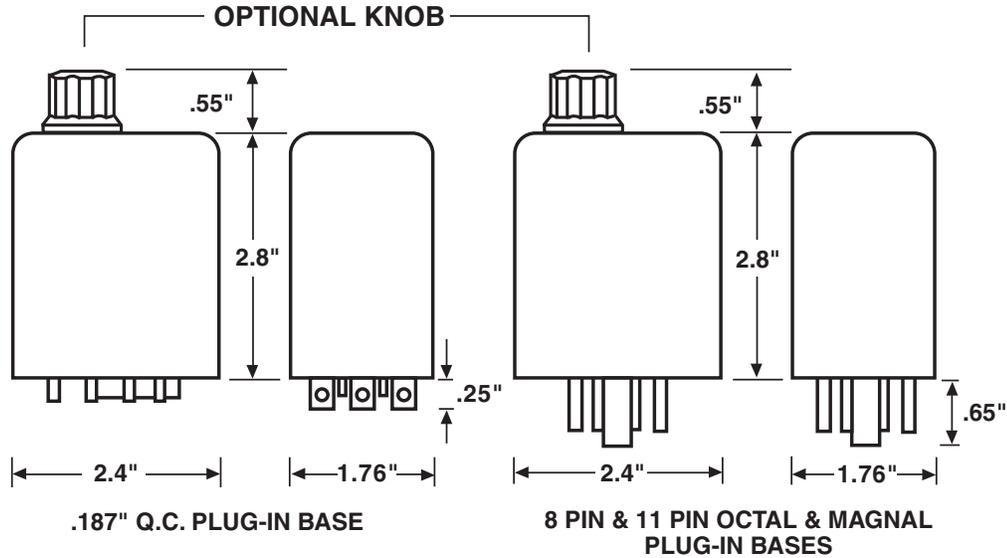
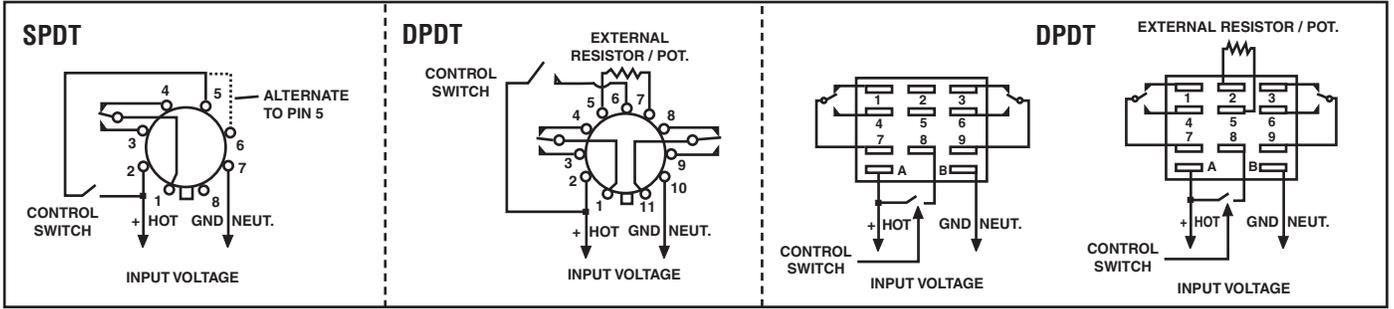
Polarity Protection: All DC units have reverse polarity protection.
Transient Protection: 25 joules

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



OPTIONS SELECTION

| Mode of Operation | Series | Input Voltage | Examples of Time Ranges | Tolerance | Time Adjust. Method | Base Style | Options | |
|---|-------------|---------------|------------------------------|---|--|---|--|---|
| Single Shot On Make with Isolated Control Switch or Input Voltage Control Switch | TNPL | 1 120 VAC | VARIABLE TIME PERIODS | | 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 | 0001 0.1 to 1 sec. | Any range up to 72 hours available on special order. FIXED TIME PERIODS 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 | | | | |
| | | 3 24 VAC | 0010 0.1 to 10 sec. | | | | | |
| | | 4 24 VDC | 0100 1 to 100 sec. | | | | | |
| | | 7 12 VDC | 1000 10 to 1000 sec. | | | | | |
| | | 8 SPECIAL AC | | | | | | |
| | | 9 SPECIAL DC | | | | | | |

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.