

# >>> TCR Solid-state Timer



## Features

- > A wide AC/DC power supply range greatly reduces the number of timer models kept in stock
- > A wide range of applications with multiple operating modes, 6 modes for 11-pin, models and 4 modes for 8-pin models
- > Easy sequence checking with instantaneous outputs for a zero set value

## Model Number structure

TCR5BN171N

Number of pins

5: 8-pin models

Input Type for 8 pins

BN: Power-up start Timer, DPCO multi-function multi-voltage. 8-pin

(A: ON-delay, B2: Flicker ON start, E: Interval, J: One-shot)

BK: Power-up start Timer, single voltage On-Delay with Instantaneous contact. 8-pin

HN: Power-up start Timer, Multi-voltage On-Delay with Instantaneous contact. 8-pin

Supply voltage

BN & HN:

171N: 100~240VAC 100~125VDC

037N: 24~48VAC 12~48VDC

BK:

110A: 110VAC

220A: 220VAC

024D: 24VDC

## Ordering information

TCR6BM171N

Number of pins

6: 11-pin models

Input Type for 11 pins

BM: Signal start Timer, DPCO multi-function single voltage or multi-voltage 11-pin

(B: ON-delay, F: Flicker ON start,

R: Flicker OFF start, C: signal ON/OFF delay,

D: signal OFF delay, E: Interval)

Rated voltage

110A: 110VAC

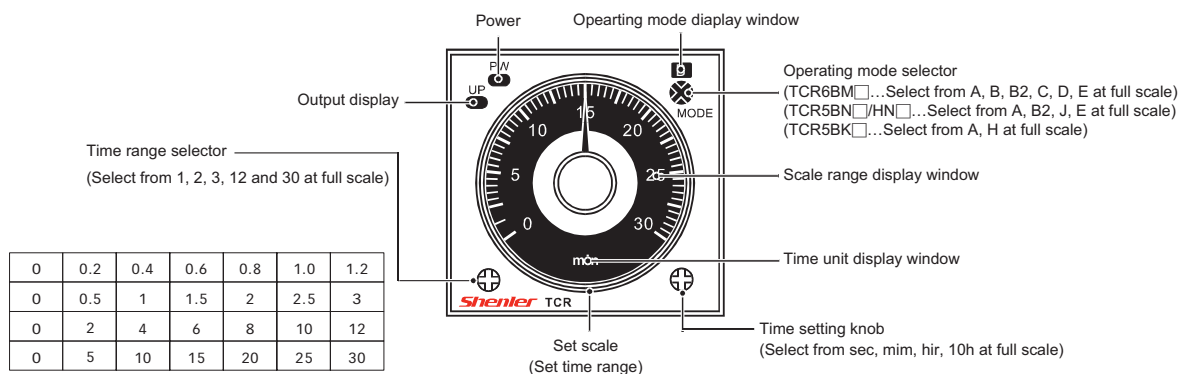
220A: 220VAC

024D: 24VDC

171N: 100~240VAC 100~125VDC

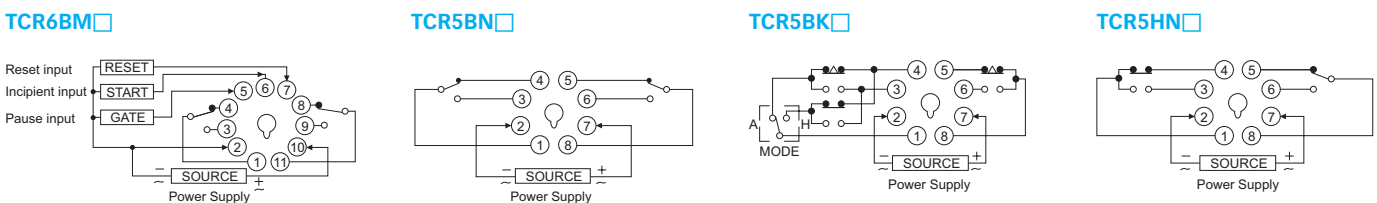
037N: 24~48VAC 12~48VDC

## Specifications



Specifications		TCR6BM□	TCR5BN□	TCR5HN□	TCR5BK□
Models		TCR6BM□	TCR5BN□	TCR5HN□	TCR5BK□
Output control	Delay operation	SPDT(2C)		SPDT(1C)	A: 2SPDT (2C)
	Instantaneous			SPDT(1C)	H: signal ON/OFF delay
	Max.output load	5A, 250VAC(p.f.=1)			
	Min output load	10mA, 5VDC			
Operating voltage range	85~110% rated supply voltage				
Repetitive error	±0.3% (FS max.), (±0.3% 10ms max. in range of 1.2s)				
Setting error	±5% (FS max.) ±5ms				
Voltage error	±0.5% (FS max.) (±0.5% ±10ms max. in a range of 1.2s)				
Temperature error	±2% (FS max.) (±2% ±10ms max. in a range of 1.2s)				
Reset time	0.1sec				
Mounting method	DIN rail mounting, surface mounting				
Ambient temperature	-10°C ~55°C				
Ambient humidity	35~85%RH				
Insulation resistance	100MΩ (DC500V)				
Dielectric strength	2000V 50/60Hz min (between current-carrying metal parts and exposed non-current-carrying metal parts)				
	1500V 50/60Hz min(between control output terminals and operating circuit), not include DC12V				
	1000V 50/60Hz min Between contacts				
Static immunity	8KV (Malfunction), 15KV (Destruction)				
Impulse withstand voltage	3KV (between power terminals) 1KV for 24VDC				
	4.5KV (Between current-carrying terminal ans exposed non-current carrying metal parts) 1.5KV for 24vdc				
Vibration resistance	Destruction	10~55Hz with 0.75mm singal amplitude each in 3 directions for 2 hours each			
	Malfubction	10~55Hz with 0.5 mm singal amplitude each in 3 directions for 10 minutes each			
Shock resistance	Destruction	30G			
	Malfubction	10G			
Life expectancy	Mechanical	> 10 <sup>7</sup>			
	Electrical	> 10 <sup>5</sup> (AC 250V, 3A)			
Protection grade	TEC: IP40				
Weight	Approx. 95g				

## Connection Diagram



## Dimensions

