



Automation for a Changing World

# Delta Timer/Counter/Tachometer CTA Series



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 **DELTA**  
Smarter. Greener. Together.

# Features

- 3-in-1 timer/counter/tachometer
- Mixed timer + counter function
- 6-digit LCD display
- Maximum speed of the counter: 10Kpps
- NPN or PNP input signals available
- Pre-scale function
- Counting types: 1-stage, 2-stage, batch, total, dual



# Ordering Information

**CTA**    4    0    0    0    A  
           ①    ②    ③    ④    ⑤

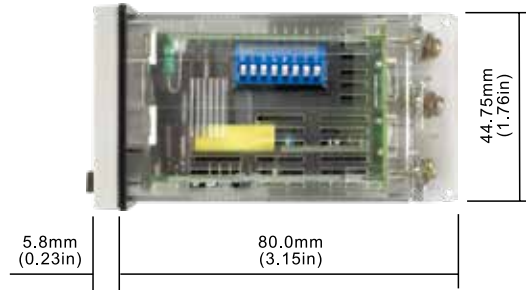
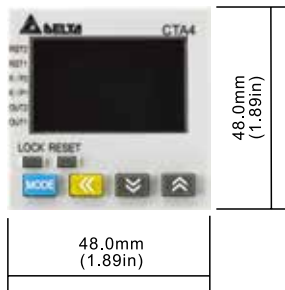
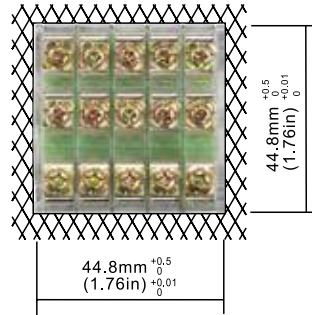
① Panel size	4 : 48 mm × 48 mm
② Output 2	0 : Transistor ; 1 : Relay
③ Preset stage	0 : 2 stages
④ Communication	0 : None ; 1 : Communication
⑤ Power supply	A : AC100~240V ; D : DC24V

# Specifications

Power input	100~240 V <sub>AC</sub> , 50/60Hz or 24 V <sub>DC</sub> , isolated switching power supply
Input voltage range	85% to 110%, rated voltage
Power consumption	Less than 10VA
External power supply	12DC ± 10%, 100mA
Display	Double-line, 6-digit negative transmissive LCD display
Input signal	Non-voltage input (NPN): ON impedance max. 1K ohm ON residual voltage: max. 2V
	Voltage input (PNP): High level: 4.5 to 30 V <sub>DC</sub> , Low level: 0 to 2 V <sub>DC</sub>
Output 1	Relay: SPST max. 250 V <sub>AC</sub> , 5A (resistance load)
	Transistor: NPN open collector. When 100 mA / 30 V <sub>DC</sub> , residual voltage = max. 1.5 V <sub>DC</sub>
Output 2	Relay: SPDT max. 250 V <sub>AC</sub> , 5A (resistance load)
	Transistor: NPN open collector. When 100 mA / 30 V <sub>DC</sub> , residual voltage = max. 1.5 V <sub>DC</sub>
Dielectric strength	2000 V <sub>AC</sub> 50/60 Hz for 1 minute
Vibration resistance	Without damage: 10 ~ 55 Hz, amplitude = 0.75 mm, 3 axes for 2 hours
Shock resistance	Without damage: drop 4 times, 300 m/s <sup>2</sup> , 3 edges, 6 surfaces and 1 corner
Ambient temperature	0° C to +50° C
Storage temperature	-20° C to +65° C
Altitude	2000m or less
Ambient humidity	35% to 85% RH (non-condensing)
Pollution degree	2
Communication	RS-485

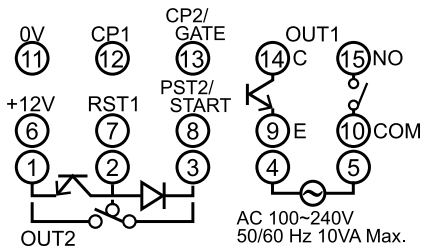
# Dimensions

Dimensions are in mm (in.)

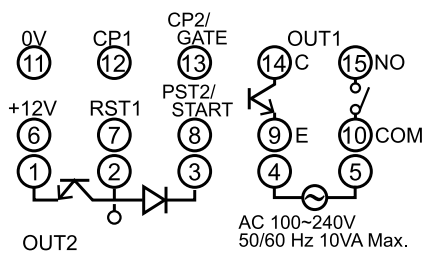


# Terminal Definition

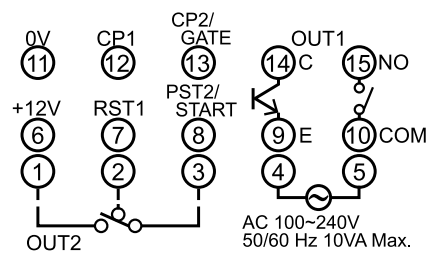
## CTA4 Series



Counter	Timer	Tachometer	Timer + Counter
CP1		CP1	CP1
CP2	Gate		Gate
Reset1	Reset1	Reset1	Reset1
Reset2	Start		Start



CTA4000 Series



CTA4100 Series





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