



Features:

- Dual display, 4 digits, 7 segments LED display
- Relay output for timer(OP1)
- On delay timer
- Timer unit: second, minute, hour
- Timer triggering mode: Run automatically after power on, trigger by an external switch, trigger by master device
- Timing sequence: count down or count up configurable
- Relay output for counter(OP2)
- Counter input: NPN pulse/dry contact/ in correlation with timer
- Frequency: 1-5000HZ selectable
- Output mode for OP2: N/R/C/HN/EN/LN(refer to manual)
- OP2 output reset delay time range:0.01~99.9 seconds
- Memory retention: memory on/off configurable
- Reset mode: Auto reset, front plate reset, reset from master device such as HMI via RS-485

-RS485 Modbus RTU Communication optional

Technical Specifications

Ordering Information

CFT100 (48mm*48mm)(Width*Height) — **1** **2** **3**

CFT100 counter and timer 2 in 1 controller, standard model with one relay output for timer

1:Output for counter

N	No output for counter
2	OP2 relay output for counter

2:Power supply

B	85~265Vac 50/60HZ
D	DC 24V

3:Communication option

N	Without communication
M	With RS-485 communication

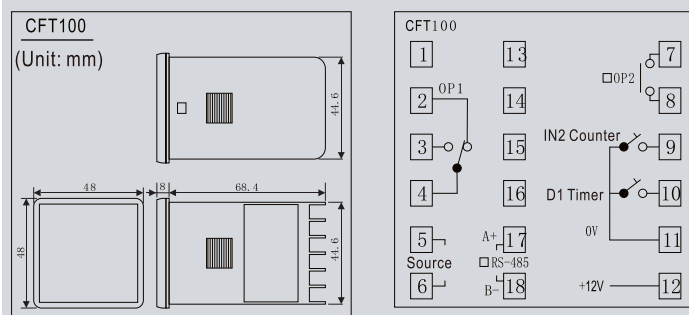
Example: CFT100-N-B-N(OP1 relay for timer output is a factory default)

CFT100: size 48mm*48mm
N:without OP2 output for counter
B: 85~265Vac source
N: Without RS-485 communication

Example: CFT100-2-B-N

CFT100: size 48mm*48mm
2:with OP2 output for counter
B: 85~265Vac source
N: Without RS-485 communication

Size and wiring diagram



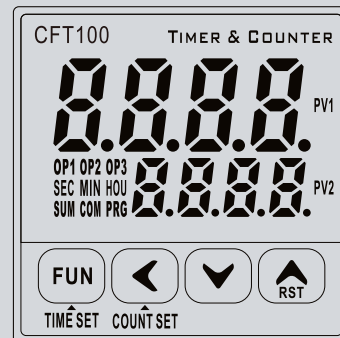
OP1 Relay rating:250VAC, 5A(resistive load)
 OP2 Relay rating: 250VAC, 3A(resistive load)

Remark: OP1 relay output for timer, this is a standard feature comes with this device
 Terminal 5 and 6 for power supply
 Terminal 17 and 18 for RS-485 communication
 Terminal 7 and 8 for OP2 output for counter(need to be specified when order with us)
 Terminal 10 and 11 for an external switch for timer
 Terminal 9 and 11 for counter input
 Terminal 11 and 12 is auxiliary power supply for sensors such as proximity sensors

Some of the key features of this timer

This controller+timer is a turn-key solution for application where they need a timer and a counter, the timer has a relay output as standard package and counter is for display purpose in general, for some equipments, they have a counter and a timer deployed separately, CFT100 can replacement them with one unit only.

Panel layout and description



- PV1: Display window for timer(parameter notation)
- PV2: Display window for counter(parameter value)
- COM: RS-485 indicator
- OP1: Output indicator for timer output
- OP2: Output indicator for counter output
- OP3: N/A, reserved for other function
- SEC: Timer unit, seconds
- MIN: Timer unit, minutes
- HOU: Timer unit, hours
- SUM: Reserved
- COM: RS-485 communication indicator
- PRG: Reserved
- FUN**: Setting key for counter, function key
- <**: setting key for counter, shift key
- ↓**: decrement key
- ↑**: increment key/manual reset key for counter