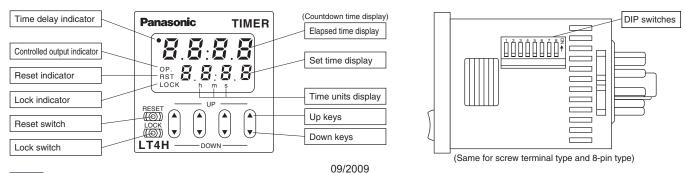


| Time range                                                                                                                  | Operating mode                                            | Output                                                          | Operating voltage | Power down insurance | Terminal type  | Part number   |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|-------------------|----------------------|----------------|---------------|
|                                                                                                                             |                                                           |                                                                 | 100 to 240 V AC   |                      | 8 pins         | LT4H8-AC240V  |
|                                                                                                                             |                                                           | Relay<br>(1 c)                                                  |                   |                      | 11 pins        | LT4H-AC240V   |
|                                                                                                                             |                                                           |                                                                 |                   |                      | Screw terminal | LT4H-AC240VS  |
|                                                                                                                             |                                                           |                                                                 |                   |                      | 8 pins         | LT4H8-AC24V   |
|                                                                                                                             |                                                           |                                                                 | 24 V AC           |                      | 11 pins LT4H-  | LT4H-AC24V    |
|                                                                                                                             |                                                           |                                                                 |                   |                      | Screw terminal | LT4H-AC24VS   |
| 9.999 s (0.001 s~)                                                                                                          | Power ON delay (1)                                        |                                                                 |                   |                      | 8 pins         | LT4H8-DC24V   |
| 99.99 s (0.01 s~)                                                                                                           | Power ON delay (2)<br>Signal ON delay<br>Signal OFF delay | al ON delay 12 to 24 V DC 1<br>I OFF delay e One-shot Available | 12 to 24 V DC     |                      | 11 pins        | LT4H-DC24V    |
| 999.9 s (0.1 s~)<br>9999 s (1 s~)<br>99 min 59 s (1 s~)<br>999.9 min (0.1 min~)<br>99 h 59 min (1 min~)<br>999.9 h (0.1 h~) |                                                           |                                                                 |                   |                      | Screw terminal | LT4H-DC24VS   |
|                                                                                                                             | Pulse One-shot<br>Pulse ON-delay                          |                                                                 | 8 pins            | LT4HT8-AC240V        |                |               |
|                                                                                                                             | Signal Flicker                                            |                                                                 | 100 to 240 V AC   | 40 V AC 11 pins      | 11 pins        | LT4HT-AC240V  |
|                                                                                                                             | Totalizing ON-delay<br>(8 modes)                          |                                                                 |                   |                      |                | LT4HT-AC240VS |
|                                                                                                                             |                                                           | Transistor<br>(1 a)                                             |                   |                      |                | LT4HT8-AC24V  |
|                                                                                                                             |                                                           |                                                                 | 24 V AC           |                      | 11 pins        | LT4HT-AC24V   |
|                                                                                                                             |                                                           |                                                                 |                   |                      | Screw terminal | LT4HT-AC24VS  |
|                                                                                                                             |                                                           |                                                                 | 12 to 24 V DC     |                      | 8 pins         | LT4HT8-DC24V  |
|                                                                                                                             |                                                           |                                                                 |                   |                      | 11 pins        | LT4HT-DC24V   |
|                                                                                                                             |                                                           |                                                                 |                   |                      | Screw terminal | LT4HT-DC24VS  |

\* A rubber gasket (ATC18002) and a mounting frame (AT8-DA4) are included.

## Part names



## Specifications

|                  |                                          | Туре                 | Relay out                                                                                                                                                                                                                                                                                                                                              | put type                                      | Transistor                                                                              | output type                  |  |  |
|------------------|------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------|--|--|
| Item             |                                          |                      | AC type AC/DC type                                                                                                                                                                                                                                                                                                                                     | DC type                                       | AC type AC/DC type                                                                      | DC type                      |  |  |
|                  | Rated opera                              | ting voltage         | 100 to 240 V AC, 24 V AC,<br>24 V AC/DC                                                                                                                                                                                                                                                                                                                | 12 to 24 V DC                                 | 100 to 240 V AC, 24 V AC,<br>24 V AC/DC                                                 | 12 to 24 V DC                |  |  |
|                  | Rated freque                             | ency                 | 50/60 Hz common                                                                                                                                                                                                                                                                                                                                        | _                                             | 50/60 Hz common                                                                         | _                            |  |  |
|                  | Rated power consumption                  |                      | Max. 10 V A                                                                                                                                                                                                                                                                                                                                            | Max. 3 W                                      | Max. 10 V A                                                                             | Max. 3 W                     |  |  |
|                  | Rated control capacity                   |                      | 5 A, 250 V AC (                                                                                                                                                                                                                                                                                                                                        | resistive load)                               | 100 mA,                                                                                 | 30 V DC                      |  |  |
|                  | Time range                               |                      | 9.999 s, 99.99 s, 999.9 s, 9999 s, 99 min 59 s, 999.9 min, 99 h 59 min, 999.9 h (selected by DIP switch)                                                                                                                                                                                                                                               |                                               |                                                                                         |                              |  |  |
| Rating           | Time counting direction                  |                      | Addition (UP)/Subtraction (DOWN)<br>(2 directions selectable by DIP switch)                                                                                                                                                                                                                                                                            |                                               |                                                                                         |                              |  |  |
|                  | Operation m                              | ode                  | A (Power ON delay 1), A2 (Power ON delay 2), B (Signal ON delay), C (Signal OFF delay), D (Pulse one-shot),<br>E (Pulse ON delay), F (Signal Flicker), G (Totalizing ON delay) (selectable by DIP switch)                                                                                                                                              |                                               |                                                                                         |                              |  |  |
|                  | Start/Reset/Stop input                   |                      | Min. input signal width: 1 ms,                                                                                                                                                                                                                                                                                                                         | 20 ms (2 directions by selecte                | d by DIP switch) (The 8-pin type                                                        | does not have a stop input.) |  |  |
|                  | Lock input                               |                      | Min. ir                                                                                                                                                                                                                                                                                                                                                | nput signal width: 20 ms (The 8               | 3-pin type does not have a lock in                                                      | iput.)                       |  |  |
|                  | Input signal                             |                      |                                                                                                                                                                                                                                                                                                                                                        |                                               | : Max. 1 kΩ; Residual voltage: M<br>, Max. energized voltage: 40V D0                    |                              |  |  |
|                  | Indication                               |                      | 7-segment LCD (LT4H, LT                                                                                                                                                                                                                                                                                                                                | 4H-L common), Elapsed value                   | e (backlight red LED), Setting value                                                    | ue (backlight yellow LED)    |  |  |
|                  | Power failure memory method              |                      |                                                                                                                                                                                                                                                                                                                                                        | EEP-ROM (Min                                  | . 10 <sup>s</sup> overwriting)                                                          |                              |  |  |
|                  | Operating tir                            | ne fluctuation       |                                                                                                                                                                                                                                                                                                                                                        |                                               | <b>-</b>                                                                                |                              |  |  |
| Fime<br>accuracy | Temperature                              | error                | ± (0.005 % + 50 r                                                                                                                                                                                                                                                                                                                                      | ± (0.005 % + 50 ms) in case of power on start |                                                                                         |                              |  |  |
| nax.)            | Voltage erro                             | r                    | $ \begin{array}{c} \pm (0.005 \% + 30 \text{ ms}) \text{ in case of power of start} \\ \pm (0.005 \% + 20 \text{ ms}) \text{ in case of input signal start} \end{array} \\ \begin{array}{c} \text{Temperature: } -10 \text{ to } +55^{\circ}\text{C} + 14 \text{ to } +131^{\circ}\text{F} \\ \text{Min. input signal width: 1ms} \end{array} \right]$ |                                               |                                                                                         |                              |  |  |
|                  | Setting error                            |                      |                                                                                                                                                                                                                                                                                                                                                        |                                               |                                                                                         |                              |  |  |
|                  | Contact arra                             | ngement              | Timed-out 1 Form C                                                                                                                                                                                                                                                                                                                                     |                                               | Timed-out 1 Form A (Open collector)                                                     |                              |  |  |
| Contact          |                                          | ince (Initial value) |                                                                                                                                                                                                                                                                                                                                                        |                                               |                                                                                         |                              |  |  |
|                  | Contact material                         |                      | Ag alloy/Au flash —                                                                                                                                                                                                                                                                                                                                    |                                               |                                                                                         | _                            |  |  |
| .ife             | Mechanical (contact)                     |                      | Min. 2x10 <sup>,</sup> ope. (Except for switch operation parts) —                                                                                                                                                                                                                                                                                      |                                               | _                                                                                       |                              |  |  |
|                  | Electrical (contact)                     |                      | 1.0x10 <sup>s</sup> ope. (At rated control voltage) Min. 10 <sup>s</sup> ope. (At rated control voltage)                                                                                                                                                                                                                                               |                                               |                                                                                         | ted control voltage)         |  |  |
|                  | Allowable operating voltage range        |                      | 85 to 110 % of rated operating voltage                                                                                                                                                                                                                                                                                                                 |                                               |                                                                                         |                              |  |  |
|                  | Breakdown voltage<br>(Initial value)     |                      | 2,000 Vrms for 1 min: Between live and dead metal parts (11-pin)<br>2,000 Vrms for 1 min: Between input and output<br>1,000 Vrms for 1 min: Between contacts<br>2,000 Vrms for 1 min: Between live and dead metal<br>2,000 Vrms for 1 min: Between live and dead metal<br>2,000 Vrms for 1 min: Between live and dead metal                            |                                               |                                                                                         |                              |  |  |
| Electrical       | Insulation resistance<br>(Initial value) |                      | Between live and<br>Min. 100 MΩ: Between input ar<br>Between contacts                                                                                                                                                                                                                                                                                  |                                               | Min. 100 MΩ: Between live and dead metal parts<br>Between input and output (At 500V DC) |                              |  |  |
|                  | Operating voltage reset time             |                      | Max. 0.5 s                                                                                                                                                                                                                                                                                                                                             |                                               |                                                                                         |                              |  |  |
|                  | Temperature rise                         |                      | Max. 65° C                                                                                                                                                                                                                                                                                                                                             |                                               |                                                                                         | -                            |  |  |
|                  | Vibration                                | Functional           | 10 to 55 Hz: 1 cycle/min single amplitude of 0.35 mm .014 inch (10 min on 3 axes)                                                                                                                                                                                                                                                                      |                                               |                                                                                         |                              |  |  |
| Mechanical       | resistance                               | Destructive          | 10 to 55 Hz: 1 cycle/min single amplitude of 0.75 mm .030 inch (1 h on 3 axes)                                                                                                                                                                                                                                                                         |                                               |                                                                                         |                              |  |  |
|                  | Shock                                    | Functional           | Min. 98 m 321.522 ft./s· (4 times on 3 axes)                                                                                                                                                                                                                                                                                                           |                                               |                                                                                         |                              |  |  |
|                  | resistance Destructive                   |                      | Min. 294 m 964.567 ft./s: (5 times on 3 axes)                                                                                                                                                                                                                                                                                                          |                                               |                                                                                         |                              |  |  |
|                  | Ambient temperature                      |                      | -10° C to 55° C +14° F to +131° F                                                                                                                                                                                                                                                                                                                      |                                               |                                                                                         |                              |  |  |
| perating         | Ambient humidity                         |                      | Max. 85 % RH (non-condensing)                                                                                                                                                                                                                                                                                                                          |                                               |                                                                                         |                              |  |  |
| onditions        | Air pressure                             |                      | 860 to 1,060 h Pa                                                                                                                                                                                                                                                                                                                                      |                                               |                                                                                         |                              |  |  |
|                  | Ripple rate                              |                      | 20 % or less 20 % or less                                                                                                                                                                                                                                                                                                                              |                                               |                                                                                         |                              |  |  |
| Connection       |                                          |                      |                                                                                                                                                                                                                                                                                                                                                        | · _ · _ ·                                     | screw terminal                                                                          |                              |  |  |
| rotective co     | nstruction                               |                      |                                                                                                                                                                                                                                                                                                                                                        | IP66 (front panel)                            | with rubber gasket)                                                                     |                              |  |  |

## Applicable standard

| Safety standard | EN61812-1                                                          | Pollution Degree 2/Overvoltage Category II                                                         |
|-----------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                 | (EMI)EN61000-6-4<br>Radiation interference electric field strength | EN55011 Group1 ClassA                                                                              |
|                 | Noise terminal voltage<br>(EMS)EN61000-6-2                         | EN55011 Group1 ClassA                                                                              |
|                 | Static discharge immunity                                          | EN61000-4-2 4 kV contact<br>8 kV air                                                               |
|                 | RF electromagnetic field immunity                                  | EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz)<br>10 V/m pulse modulation (895 MHz to 905 MHz) |
| EMC             | EFT/B immunity                                                     | EN61000-4-4 2 kV (power supply line)<br>1 kV (signal line)                                         |
|                 | Surge immunity                                                     | EN61000-4-5 1 kV (power line)                                                                      |
|                 | Conductivity noise immunity                                        | EN61000-4-6 10 V/m AM modulation (0.15 MHz to 80 MHz)                                              |
|                 | Power frequency magnetic field immunity                            | EN61000-4-8 30 A/m (50 Hz)                                                                         |
|                 | Voltage dip/Instantaneous stop/Voltage fluctuation immunity        | EN61000-4-11 10 ms, 30% (rated voltage)                                                            |
|                 |                                                                    | 100 ms, 60% (rated voltage)                                                                        |
|                 |                                                                    | 1,000 ms, 60% (rated voltage)                                                                      |
|                 |                                                                    | 5,000 ms, 95% (rated voltage)                                                                      |

### **Dimensions**

Panasonic

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LT4H



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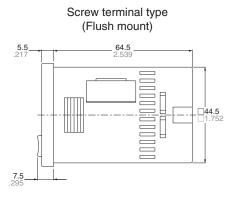
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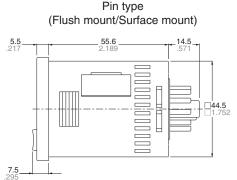
8

TIMER

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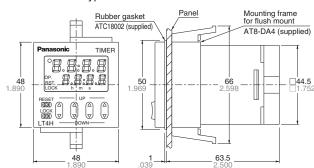
(units: mm inch)

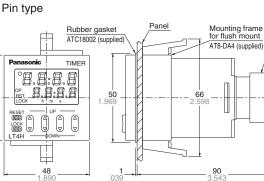
8-pin type (8p cap AD8-RC sold separately)

(11-pin type (11p cap AT8-DP11 sold separately)

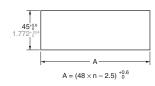
Tolerance:  $\pm 1.0 \pm .039$ 

• Dimensions for embedded installation (with adapter installed) Screw terminal type





· For connected installations



Note) 1: The installation panel thickness should be between 1 and 5 mm .039 and .197 inch

2: For connected installations, the waterproofing ability between the unit and installation panel is lost.

#### Device installation rail AT8-DLA1 (sold separately) 95.5 (90.0)

DIN rail terminal block (8-pin type AT8-DF8K sold separately) (11-pin type AT8-DF11K sold separately)

() dimension is for 8-pin type.

• Dimensions for front panel installations

S

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below. Use the mounting frame (AT8-DA4) and rubber gasket (ATC18002).

Installation panel cut-out dimensions

The standard panel cut-out dimensions are shown

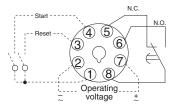
**48** 1.890

# 80 min +45<sup>+</sup>%<sup>6</sup> → 1.772<sup>+</sup>% 45

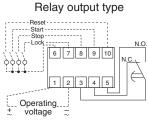
## Terminal layouts and wiring diagrams

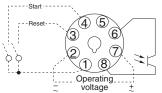
### • 8-pin type

Relay output type



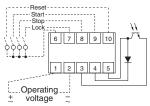
## Screw terminal type



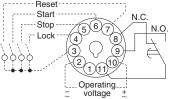


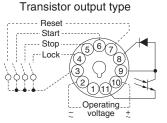
Transistor output type

Transistor output type



#### • 11-pin type Relay output type Reset





Note) For connecting the output leads of the transistor output type, refer to 5) Transistor output on page 26.

#### 09/2009

### Setting the operation mode, time range and time

Setting procedure 1) Setting the operation mode and time range

Set the operation mode and time range with the DIP switches on the side of the LT4H timer.

#### **DIP** switches

| DIF SWICHES |                                                   |                  |             |  |  |  |
|-------------|---------------------------------------------------|------------------|-------------|--|--|--|
|             | Item                                              | DIP switch       |             |  |  |  |
|             | item                                              | OFF              | ON          |  |  |  |
| 1           |                                                   |                  |             |  |  |  |
| 2           | Operation mode                                    | Refer to table 1 |             |  |  |  |
| 3           |                                                   |                  |             |  |  |  |
| *4          | Minimum input reset, start, and stop signal width | 20 ms            | 1 ms        |  |  |  |
| 5           | Time delay direction                              | Addition         | Subtraction |  |  |  |
| 6           |                                                   |                  |             |  |  |  |
| 7           | Time range                                        | Refer to         | table 2     |  |  |  |
| 8           |                                                   |                  |             |  |  |  |

\* The 8-pin type does not have the stop input, so that the dip switch can be changed over between reset and start inputs. The signal range of the lock input is fixed (minimum 20 ms).

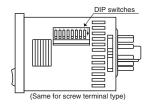


Table 1: Setting the operation mode

| DI  | P switch N | ۱o. |                        |  |  |
|-----|------------|-----|------------------------|--|--|
| 1   | 2          | 3   | Operation mode         |  |  |
| ON  | ON         | ON  | A: Power on delay 1    |  |  |
| OFF | OFF        | OFF | A2: Power on delay 2   |  |  |
| ON  | OFF        | OFF | B: Signal on delay     |  |  |
| OFF | ON         | OFF | C: Signal off delay    |  |  |
| ON  | ON         | OFF | D: Pulse One shot      |  |  |
| OFF | OFF        | ON  | E: Pulse On delay      |  |  |
| ON  | OFF        | ON  | F: Signal Flicker      |  |  |
| OFF | ON         | ON  | G: Totalizing On delay |  |  |

#### Table 2: Setting the time range

| DID such the Nie |     |     |                           |
|------------------|-----|-----|---------------------------|
| DIP switch No.   |     |     | Time range                |
| 6                | 7   | 8   | Time tange                |
| ON               | ON  | ON  | 0.001 s to 9.999 s        |
| OFF              | OFF | OFF | 0.01 s to 99.99 s         |
| ON               | OFF | OFF | 0.1 s to 999.9 s          |
| OFF              | ON  | OFF | 1 s to 9999 s             |
| ON               | ON  | OFF | 0 min 01 s to 99 min 59 s |
| OFF              | OFF | ON  | 0.1 min to 999.9 min      |
| ON               | OFF | ON  | 0 h 01 min to 99 h 59 min |
| OFF              | ON  | ON  | 0 1 h to 999 9 h          |

Notes: 1) Set the DIP switches before installing the timer.

When the DIP SW setting is changed, turn off the power once.
 The DIP switches are set as ON before shipping.

#### Setting procedure 2) Setting the time

Set the set time with the keys (UP and DOWN keys) on the front of the LT4H timer.

Panasonic

LT4H

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TIMER

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(4)

5

6

10

(11)

#### Front display section

- 1 Elapsed time display
- Set time display
- ③ Time delay indicator
- (4) Controlled output indicator
- (5) Reset indicator
- 6 Lock indicator
- Time units display

#### · Changing the set time

Power failure memory

1. It is possible to change the set time with the up and down keys even during time delay with the timer. However, be aware of the following points.

1) If the set time is changed to less than the elapsed time with the time delay set to the addition direction, time delay will continue until the elapsed time reaches full scale, returns to zero, and then reaches the new set time. If the set time is changed to a time above the elapsed time, the time delay will continue until the elapsed time reaches the new set time. 2) If the time delay is set to the subtraction direction, time delay will continue until "0" regardless of the new set time. 2. If the set time is changed to "0," the unit will operate differently depending on the operation mode.

1) If the operation mode is set to A (power on delay 1) or A2 (power on

(8) UP keys

(1)

(2)

-7

-8

-9

- Changes the corresponding digit of the set time in the addition direction (upwards)
- 9 DOWN keys
- Changes the corresponding digit of the set time in the subtraction direction (downwards)
- 10 RESET switch
- Resets the elapsed time and the output 1 LOCK switch
  - Locks the operation of all keys on the unit

delay 2), the output will turn on when the power supply is turned on. However, the output will be off while reset is being input.

2) In the other modes, the output turns on when the start is input. When the operation mode is C (signal off delay),D (Pulse one shot), or F (Signal flicker),only when the start input is on does the output turn on. Also, when the reset is being input, the output is off.

The EEPROM is used for power failure memory. It has a life of Min. 10<sup>5</sup> over-writings. The EEPROM is overwriting with the following timing.

| Output mode           | Overwrite timing                                                                 |
|-----------------------|----------------------------------------------------------------------------------|
| Power ON delay (2) A2 | When power is OFF                                                                |
| Addition G            | Change of preset value or start, reset input<br>When power is OFF after being ON |
| Other modes           | When power is OFF after changing preset value                                    |

\* Be aware that the contents of EEPROM for all modes will be overwritten when power is turned OFF during input to external lock terminals ④ to ③ and 🗍 to 6. Such an action does not exist by doing lock operation from the front.

09/2009

Digital Timers

## **Operation mode**

T: Set time t1, t2, t3, ta<T

| Operation type     | Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Time chart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Power on delay (1) | <ul> <li>Set the operation mode section of the DIP switches (no.'s 1, 2, and 3) on the side of the timer as shown.</li> <li>Clears elapsed time value and starts time delay at power ON.</li> <li>After timer completion, stops at the display of the set value (addition), or stops at "0" (subtraction).</li> <li>Ignores start input.</li> <li>Stops delay time operation at stop ON. Restarts delay time operation at stop OFF.</li> </ul>                                                                                                                                     | Power supply OFF<br>Output OFF MAMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |
| Power on delay (2) | <ul> <li>Set the operation mode section of the DIP switches (no.'s 1, 2, and 3) on the side of the timer as shown.</li> <li>Elapsed time value does not clear at power ON. (power outage countermeasure function)</li> <li>The output remains ON even after the power is cut and restarted.</li> <li>After timer completion, stops at the display of the set value (addition), or stops at "0" (subtraction).</li> <li>Ignores start input.</li> <li>Stops delay time operation at stop OFF.</li> </ul>                                                                            | Power supply OFF<br>Output OFF<br>Reset OFF<br>Stop OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
| Signal on delay    | <ul> <li>Set the operation mode section of the DIP switches (no.'s 1, 2, and 3) on the side of the timer as shown.</li> <li>Clears elapsed time value at power ON.</li> <li>Time delay starts at start ON and elapsed time value or output resets at start OFF.</li> <li>Instantaneous time delay start at reset OFF and power ON while start is ON.</li> <li>Stops delay time operation at stop ON. Restarts delay time operation at stop OFF.</li> <li>In order to have the time delay start at power ON or reset at power OFF, short out the start input beforehand.</li> </ul> | Power supply         OFF         T         11         12         t1+t2=T           Output         OFF         OFF         OFF         OFF         OFF           Stop         OFF         OFF         OFF         OFF         OFF         OFF           Start         OFF         ON         OFF         OFF <td< td=""></td<> |  |  |  |
| Signal off delay   | <ul> <li>Set the operation mode section of the DIP switches (no.'s 1, 2, and 3) on the side of the timer as shown.</li> <li>Clears elapsed time value at power ON.</li> <li>Output control ON at start ON and time delay start at start OFF.</li> <li>Elapsed time value clears when start goes ON again during time delay.</li> <li>Stops delay time operation at stop ON. Restarts delay time operation at stop OFF.</li> </ul>                                                                                                                                                  | Power supply OF<br>Output OFF<br>Reset OFF<br>Stop ON<br>Start OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |

 Each signal input (start, reset, stop, and lock) is applied by shorting their input terminal to the common terminal (terminal ① for the 8-pin type, terminal ③ for the 11-pin type, and terminal for the screw terminal type).
 The 8-pin type does not have a stop input or lock input. Notes:

# LT4H

| Operation type      | Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Time chart                                                                                                                                                                                                     |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pulse One-shot      | <ul> <li>Set the operation mode section of the DIP switches (no.'s 1, 2, and 3) on the side of the timer as shown.</li> <li>Clears elapsed time value at power ON.</li> <li>Time delay starts and output control ON at start ON.</li> <li>Turns output control OFF and clears elapsed time value at time-up.</li> <li>Ignores start input during time delay.</li> <li>Stops delay time operation at stop ON. Restarts delay time operation at stop OFF.</li> <li>In order to have the time delay start at power ON or reset at power OFF, short out the start input beforehand.</li> </ul>   | Power supply OFF<br>Output ON<br>OFF T T ta T T T ta T ta T ta T ta T ta T                                                                                                                                     |
| Pulse On delay      | <ul> <li>Set the operation mode section of the DIP switches (no.'s 1, 2, and 3) on the side of the timer as shown.</li> <li>Clears elapsed time value at power ON.</li> <li>Time delay starts at start ON.</li> <li>Ignores start input during time delay.</li> <li>Stops delay time operation at stop ON. Restarts delay time operation at stop OFF.</li> <li>In order to have the time delay start at power ON or reset at power OFF, short out the start input beforehand.</li> </ul>                                                                                                     | Power supply OFF<br>T=t1+t2<br>Output ON<br>Reset ON<br>OFF<br>Stop OFF<br>Start OFF                                                                                                                           |
| Signal Flicker      | <ul> <li>Set the operation mode section of the DIP switches (no.'s 1, 2, and 3) on the side of the timer as shown.</li> <li>Clears elapsed time value at power ON.</li> <li>Time delay starts at start ON.</li> <li>Ignores start input during time delay.</li> <li>Output control reverses, elapsed time value clears, and timer delay starts at start on.</li> <li>Stops delay time operation at stop ON. Restarts delay time delay start at power OFF.</li> <li>In order to have the time delay start at power ON or reset at power OFF, short out the start input beforehand.</li> </ul> | Power supply $OPF$ Output $OPF$ N     T = t1 + t2       Reset $ON$ Stop $OPF$ Start $OPF$                                                                                                                      |
| Totalizing On delay | <ul> <li>Set the operation mode section of the DIP switches (no.'s 1, 2, and 3) on the side of the timer as shown.</li> <li>Elapsed time value does not clear at power ON. (power outage countermeasure function)</li> <li>The output remains ON even after the power is off and restarted.</li> <li>Stops delay time operation at stop ON. Restarts delay time operation at stop OFF.</li> </ul>                                                                                                                                                                                            | Power supply OFF<br>Output OFF<br>Reset OFF<br>Stop OFF<br>Start OFF<br>T = t1+t2+t3 T>ta<br>AMA AMA<br>AMA<br>Stop OFF<br>Start OFF<br>T = t1+t2+t3 T>ta<br>AMA AMA<br>AMA<br>AMA<br>AMA<br>AMA<br>AMA<br>AMA |

Each signal input (start, reset, stop, and lock) is applied by shorting their input terminal to the common terminal (terminal ① for the 8-pin type, terminal ③ for the 11-pin type, and ter-6 minal ⑤ for the screw terminal type).
 The 8-pin type does not have a stop input or lock input.

Digital Timers

单击下面可查看定价,库存,交付和生命周期等信息

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