Panasonic ideas for life

DIN 48 SIZE DIGITAL TIMER

LT4H-W Timers

UL File No.: E122222 C-UL File No.: E122222

c**¶** ∪s (€



mm inch







8-pin type

11-pin type Screw terminal type

RoHS Directive compatibility information http://www.nais-e.com/

Features

1. Wide time range

The operation time range covers from 0.01 sec. to 9999 hours.

The individual setting can be performed on each of 1 and 2 timers.

99.99s 99min59s 99h59min 999.9s 999.9min 9999.9h 9999s 9999h

2. Bright and Easy-to-Read Display

A brand new bright 2-color back light LCD display. The easy-to-read screen in any location makes checking and setting procedures a cinch.

3. Simple Operation

Seesaw buttons make operating the unit even easier than before.

4. Short Body of only 64.5 mm 2.539 inch (screw terminal type) or 70.1 mm 2.760 inch (pin type)

With a short body, it is easy to install in even narrow control panels.

5. Conforms to IP66's Weather Resistant Standards

The water-proof panel keeps out water and dirt for reliable operation even in poor environments.

6. Screw terminal (M3.5) and Pin Types are Both Standard Options

The two terminal types are standard options to support either front panel installation or embedded installation.

7. Changeable Panel Cover

Also offers a black panel cover to meet your design considerations.

8. Compliant with UL, c-UL and CE.

9. Low Price

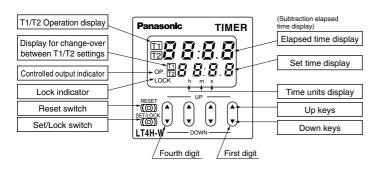
All this at an affordable price to provide you with unmatched cost performance.

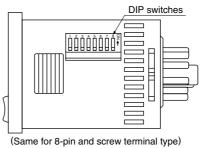
Product types

Time range	Operating mode	Output	Operating voltage	Power down insurance	Terminal type	Part number
	Pulse input: • Delayed one shot • OFF-start flicker • ON-start flicker Integrating input: • Delayed one shot • OFF-start flicker	Relay (1 c)	100 to 240 V AC	- Available	8 pins	LT4HW8-AC240V
					11 pins	LT4HW-AC240V
					Screw terminal	LT4HW-AC240VS
			24 V AC		8 pins	LT4HW8-AC24V
					11 pins	LT4HW-AC24V
					Screw terminal	LT4HW-AC24VS
99.99s			12 to 24 V DC		8 pins	LT4HW8-DC24V
999.9s 9999s					11 pins	LT4HW-DC24V
99998 99min59s					Screw terminal	LT4HW-DC24VS
999.9min 99h59min		Integrating input: • Delayed one shot • OFF-start flicker 100 to 240 V AC	100 to 240 V AC		8 pins	LT4HWT8-AC240V
999.9h					11 pins	LT4HWT-AC240V
9999h					Screw terminal	LT4HWT-AC240VS
				8 pins	LT4HWT8-AC24V	
			24 V AC	_	11 pins	LT4HWT-AC24V
					Screw terminal	LT4HWT-AC24VS
			12 to 24 V DC		8 pins	LT4HWT8-DC24V
					11 pins	LT4HWT-DC24V
					Screw terminal	LT4HWT-DC24VS

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

Part names





Specifications

Rated operating voltage	Туре		Ralay output type		Transistor output type				
Rated power consumption			AC type	DC type	AC type	DC type			
Rated power consumption		Rated operating voltage		100 to 240 V AC, 24 V AC	12 to 24 V DC	100 to 240V AC, 24V AC	12 to 24 V DC		
Rating Rated control capacity 5 A, 250 V AC Time range 99.99s, 999.9s, 999.		Rated frequency		50/60 Hz common	_	50/60 Hz common	_		
Time range		Rated power consumption		Max. 10 V A	Max. 3 W	Max. 10 V A	Max. 3 W		
Patient Time counting direction Addition (UP)Subtraction (DOWN) Californions selectable by DIP switch)		· · · · · · · · · · · · · · · · · · ·		5 A, 250	O V AC	100 mA, 30 V DC			
Rating		Time range		99.99s, 999.9s, 9999s, 99min59s, 999.9min, 99h59min, 999.9h, 9999h (selected by DIP switch)					
Substitution mode Contact Cont	Rating	Time counting direction							
Lock input		Operation m	ode						
Input signal		Start/Reset/Stop input		Min. input signal width: 1 ms, 20 ms (2 directions by selected by DIP switch) (The 8 pin type does not have a stop input.)					
Input signal		Lock input		Min. i	input signal width: 20 ms (The 8	3-pin type does not have a lock in	nput.)		
Power failure memory method Departing time fluctuation Temperature error ± (0.005% + 50 ms) in case of power on start Contact material ± (0.005% + 20 ms) in case of input signal start Departing voltage: 85% to 110% Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +55°C −14°F to +131°F Min. input signal width: 1ms Temperature: −10°C to +15°C to		Input signal		Open collector input Input impedance: Max. 1 kΩ; Residual voltage: Max. 2V					
Time Operating time fluctuation Temperature error ± (0.005% + 50 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of power on start Contact growth of the protection ± (0.005% + 20 ms) in case of input signal start Contact growth of the protection ± (0.005% + 20 ms) in case of input signal start Contact growth of the protection ± (0.005% + 20 ms) in case of input signal start Contact growth of the protection ± (0.005% + 20 ms) in case of input signal start Contact growth of the protection ± (0.005% + 20 ms) in case of input signal start Contact growth of the protection ± (0.005% + 20 ms) in case of input signal start Contact growth of the protection ± (0.005% + 20 ms) in case of input signal start Contact growth of the prot		Indication		7-segment L	CD, Elapsed value (backlight re	ed LED), Setting value (backlight	yellow LED)		
Temperature error 20 20 20 20 20 20 20 2		Power failure memory			EEP-ROM (Min	. 10 ⁵ overwriting)			
Contact Contact part Electrical Floating Floa		Operating tir	ne fluctuation	_					
Voltage error £ (0.005% + 20 ms) in case or input signal start Min. input signal width: 1ms Setting error Contact arrangement Timed-out 1 Form C Timed-out 1 Form A (Open collector)		Temperature	e error	± (0.005% + 50 ms	s) in case of power on start				
Setting error		Voltage erro	r	+ (0.005% + 20 ms) in case of input signal start Temperature: -10°C to +55°C +14°F to +131°F					
Contact Contact resistance (Initial value) 100 mΩ (at 1 A 6 V DC) — Life Mechanical (contact) Min. 2 × 10² ope. (Except for switch operation parts) — Life Mechanical (contact) Min. 10² ope. (At rated control voltage) Min. 10² ope. (At rated control voltage) Allowable operating voltage Breakdown voltage (Initial value) 2,000 Vms for 1 min: Between live and dead metal parts (11-pin type only) 2,000 Vms for 1 min: Between input and output 1,000 Vms for 1 min: Between live and dead metal parts (11-pin type only) 2,000 Vms for 1 min: Between input and output 1,000 Vms for 1 min: Between input and output 2,000 Vms for 1 min: Between input and output 2,000 Vms for 1 min: Between input and output 3,000 Vms for 1 min: Between input and output 4,000 Vms for 1	(α,)	Setting error	•	Limit input orginal matter fillo					
Contact material Ag alloy/Au flash —		Contact arra	ngement	Timed-out	1 Form C	Timed-out 1 Form A (Open collector)			
Mechanical (contact) Min. 2 × 10° ope. (Except for switch operation parts) —	Contact	Contact resista	ance (Initial value)	100 mΩ (at	1 A 6 V DC)	_			
Life Electrical (contact) Min. 10° ope. (At rated control voltage) Min. 10° ope. (At rated control voltage) Allowable operating voltage range 85 to 110 % of rated operating voltage Breakdown voltage (Initial value) 2,000 Vrms for 1 min: Between live and dead metal parts (11-pin type only) 2,000 Vrms for 1 min: Between input and output 1,000 Vrms for 1 min: Between input and output 1,000 Vrms for 1 min: Between live and dead metal parts (At 500V DC) Insulation resistance (Initial value) Between live and dead metal parts (At 500V DC) Min. 100 MΩ: Between input and output (At 500V DC) Min. 100 MΩ: Between input and output (At 500V DC) Temperature rise (under the flow of nominal operating current at nominal voltage) — Vibration resistance resistance (Institution of sistance) Functional Destructive 10 to 55 Hz: 1 cycle/ min single amplitude of 0.35 mm .014 inch (10 min on 3 axes) Shock resistance (Institution of sistance) Functional Destructive Min. 98 m 321.522 ft./s² (4 times on 3 axes) Operating conditions Ambient temperature —10° C to 55° C + 14° F to +131° F Ambient temperature —10° C to 55° C + 14° F to +131° F Ambient temperature —20 % or less Ambient temperature —20 % or less Ambient temperature —20 % or less		Contact material		Ag alloy/	Au flash	_			
Allowable operating voltage range 85 to 110 % of rated operating voltage	Life	Mechanical (contact)		Min. 2 × 10 ⁷ ope. (Except for switch operation parts)		_			
Breakdown voltage (Initial value) 2,000 Vrms for 1 min: Between live and dead metal parts (11-pin type only) 2,000 Vrms for 1 min: Between input and output 1,000 Vrms for 1 min: Between input and output 1,000 Vrms for 1 min: Between input and output 2,000 Vrms for 1 min: Between input and output 2,000 Vrms for 1 min: Between input and output 2,000 Vrms for 1 min: Between input and output 2,000 Vrms for 1 min: Between input and output 3,000 Vrms for 1 min: Between input and output 2,000 Vrms for 1 min: Between input and output 3,000		Electrical (contact)		Min. 10⁵ ope. (At rat	ted control voltage)	Min. 10 ⁷ ope. (At ra	ated control voltage)		
Electrical Electrical Electrical Insulation resistance (Initial value) 2,000 Vms for 1 min: Between input and output 1,000 Vms for 1 min: Between input and output 2,000 Vms for 1 min: Between input and output 3,000 Vms for 1 min: Between input and output 4,000 Vms in 1 min: Between input and output 4,000 Vms in 1 min: Between input and output 4,000 Vms in 1 min: Between input and output 4,000 Vms in 1 min: Between input and output 4,000 Vms in 1 min: Between input and output 4,000 Vms in 1,000 Vms in 1 min: Between input and output 4,000 Vms in 1,000 Vms in 1 min: Between input and output 4,000 Vms in 1 min: Between input and output 4,000 Vms in 1,000		Allowable opera	ating voltage range	85 to 110 % of rated operating voltage					
Insulation resistance (Initial value) Min. 100 MΩ: Between input and output Between contacts Max. 0.5 s				2,000 Vrms for 1 min: Between input	and output				
Max 65° C Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal operating current at nominal voltage Cunder the flow of nominal voltage C	Electrical			Min. 100 MΩ: Between input and output (At 500V DC) Between input and output					
Nechanical Functional 10 to 55 Hz: 1 cycle/ min single amplitude of 0.35 mm .014 inch (10 min on 3 axes)				Max. 0.5 s					
Tesistance		Temperature rise				_			
Shock resistance Functional pestructive Min. 98 m 321.522 ft./s² (4 times on 3 axes)	Machanical	Vibration Functional		10 to 55 Hz: 1 cycle/ min single amplitude of 0.35 mm .014 inch (10 min on 3 axes)					
Shock resistance Functional resistance Destructive Min. 98 m 321.522 ft./s² (4 times on 3 axes)		resistance	Destructive	10 to 55 Hz: 1 cycle/ min single amplitude of 0.75 mm .030 inch (1 h on 3 axes)			3 axes)		
Ambient temperature	Mechanical	Shock	Functional	Min. 98 m 321.522 ft./s² (4 times on 3 axes)					
Operating conditions Ambient humidity Max. 85 % RH (non-condensing) Air pressure 860 to 1,060 h Pa Ripple rate — 20 % or less — 20 % or less Connection 8-pin/11-pin/screw terminal		resistance Destructive		· · · · · · · · · · · · · · · · · · ·					
Air pressure 860 to 1,060 h Pa Ripple rate — 20 % or less — 20 % or less Connection 8-pin/11-pin/screw terminal		Ambient temperature							
Ripple rate — 20 % or less — 20 % or less Connection 8-pin/11-pin/screw terminal		Ambient humidity		Max. 85 % RH (non-condensing)					
Connection 8-pin/11-pin/screw terminal	conditions	Air pressure		860 to 1,060 h Pa					
The first of the f		Ripple rate					20 % or less		
Protective construction IP66 (front panel with rubber gasket)	Connection			8-pin/11-pin/screw terminal					
	Protective co	onstruction			IP66 (front panel v	with rubber gasket)			

(units: mm inch) Tolerance: ±1.0 ±.039

Applicable standard

Safety standard	EN61812-1	Pollution Degree 2/Overvoltage Category II		
	(EMI)EN61000-6-4			
	Radiation interference electric field strength	EN55011 Group1 ClassA		
	Noise terminal voltage	EN55011 Group1 ClassA		
	(EMS)EN61000-6-2			
	Static discharge immunity	EN61000-4-2 4 kV contact		
		8 kV air		
	RF electromagnetic field immunity	EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz)		
		10 V/m pulse modulation (895 MHz to 905 MHz)		
EMC	EFT/B immunity	EN61000-4-4 2 kV (power supply line)		
		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)		

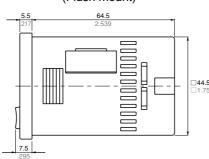
Dimensions

• LT4H-W digital timer

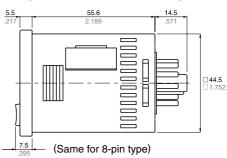
Screw terminal type (Flush mount)

Panasonic TIMER

Panaso



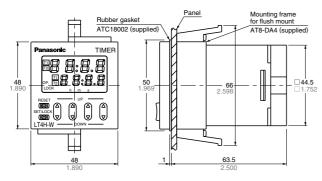
Pin type (Flush mount/Surface mount)

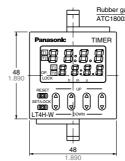


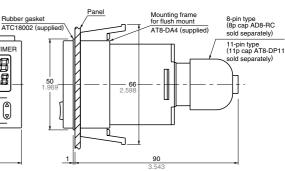
• Dimensions for flush mount (with adapter installed)

Screw terminal type







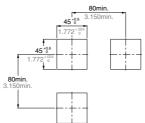


• Dimensions for front panel installations

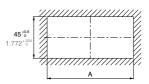
DIN rail terminal block (8-pin type AT8-DF8K sold separately) (11-pin type AT8-DF1K sold separately) (11-pin type AT8-DF1K sold separately) Device installation rail AT8-DLA1 (sold separately) 95.5 (90.0) 3.760 (3.543) () dimension is for 8-pin type.

• Installation panel cut-out dimensions

The standard panel cut-out dimensions are shown below. Use the mounting frame (AT8-DA4) and rubber gasket (ATC18002).



· For connected installations



When n timers are continuously installed, the dimension (A) is calculated according to the following formula (n: the number of the timers to be installed): $A = (48 \times n - 2.5)_{\,\, n}^{\,\, 0.6} \quad A = (1.890 \times n - .098)_{\,\, n}^{\,\, 0.04}$

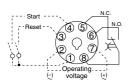
Note) 1: The installation panel thickness should be between 1 and 5 mm .039 and .197 inch.

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

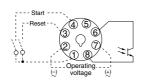
Terminal layouts and Wiring diagrams

• 8-Pin type

Relay output type

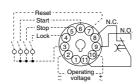


Transistor output type

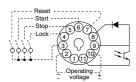


Relay output type

• 11-Pin type

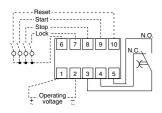


Transistor output type

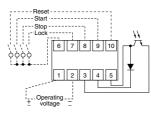


Screw terminal type

Relay output type



Transistor output type



Note) For connecting the output leads of the transistor output type, refer to 5) Transistor output on page 48.

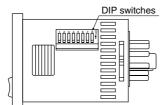
Setting the operation mode and time range

Setting procedure 1) Setting the time range (Timer T₁/Timer T₂)

Set the time range with the DIP switches on the side of the LT4H-W timer.

	Item	DIP switch		
	item	OFF	ON	
1 2	Time range (Timer T ₁)	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	Time renge	Refer to table 2		
7	Time range (Timer T ₂)			
8	(1111161 12)			

^{*} 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).



(same for screw terminal type and 8-pin type.)

Table 1: Setting the time range (Timer T₁)

	DI	P switch N	۱o.	Time range
	1	2	3	Time range
	ON	ON	ON	0.01 s to 99.99 s
-	OFF	OFF	OFF	0.1 s to 999.9 s
	ON	OFF	OFF	1 s to 9999 s
	OFF	ON	OFF	0 min 01 s to 99 min 59 s
	ON	ON	OFF	0.1 min to 999.9 min
	OFF	OFF	ON	0 h 01 min to 99 h 59 min
	ON	OFF	ON	0.1 h to 999.9 h
	OFF	ON	ON	1 h to 9999 h

Table 2: Setting the time range (Timer T₂)

DIP switch No.			Time range
6	7	8	Time range
ON	ON	ON	0.01 s to 99.99 s
OFF	OFF	OFF	0.1 s to 999.9 s
ON	OFF	OFF	1 s to 9999 s
OFF	ON	OFF	0 min 01 s to 99 min 59 s
ON	ON	OFF	0.1 min to 999.9 min
OFF	OFF	ON	0 h 01 min to 99 h 59 min
ON	OFF	ON	0.1 h to 999.9 h
OFF	ON	ON	1 h to 9999 h

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

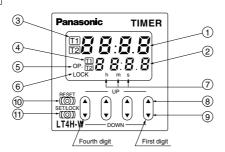
- 2) When the DIP SW setting is changed, turn off the power once.
- 3) The DIP switches are set as ON before shipping.

Setting procedure 2) Setting the operation mode

Set the operation mode with the keys on the front of the LT4H-W timer.

Front display section

- 1 Elapsed time display
- ② Set time display
- 3 T₁/T₂ operation indicator
- 4 T₁/T₂ setting value selectable indicator
- 5 Controlled output indicator
- 6 Lock indicator
- 7 Time units display



8 UP keys

Changes the corresponding digit of the set time in the addition direction (upwards)

DOWN kevs

Changes the corresponding digit of the set time in the subtraction direction (downwards)

10 RESET switch

Resets the elapsed time and the output

SET/LOCK switch

Changes over the display between T₁/T₂ settings, sets the operation mode, checks the operation mode and locks the operation of each key (such as up, down or reset key).

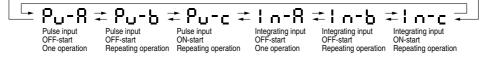
1) Setting or changing the operation mode

- (1) When the UP or DOWN key at the first digit is pressed with the SET/LOCK
- (2) Now release the SET/LOCK switch.
- switch pressed, the mode is changed over to the setting mode.

Ex: Setting operation mode display (PULSE-A example)



(3) The operation mode in the setting mode is changed over sequentially in the left or right direction by pressing the UP or DOWN key at the first digit, respectively.



(4) The operational mode displayed at present is set by pressing the RESET switch, and the display returns to the normal condition.

2) Setting (changing) the time

(1) Pressing the SET/LOCK key switches the set value display between T1 and T2. Display the timer (T1 or T2) which is to be set (or changed).

(2) After displaying the timer (T1 or T2) which is to be set, press the UP or DOWN key to change the time.

Checking the operation mode

When the UP or DOWN key at the second digit is pressed with the SET/LOCK switch pressed, the operational mode can be checked. The display returns to the normal condition after indicating the operational mode for about two seconds. (While the display indicates the operational mode for about two seconds, the other indicators continue to operate normally.)

Setting the lock

When the UP or DOWN key at the fourth digit is pressed with the SET/LOCK switch pressed, all keys on the unit are locked. The timer does not accept any of UP, DOWN and RESET keys.

To release the lock setting, press the UP or DOWN key at the fourth digit again with the set/lock switch pressed.

* Operational mode, adding and subtracting and minimum input signal range cannot be set at T1 and T2, respectively.

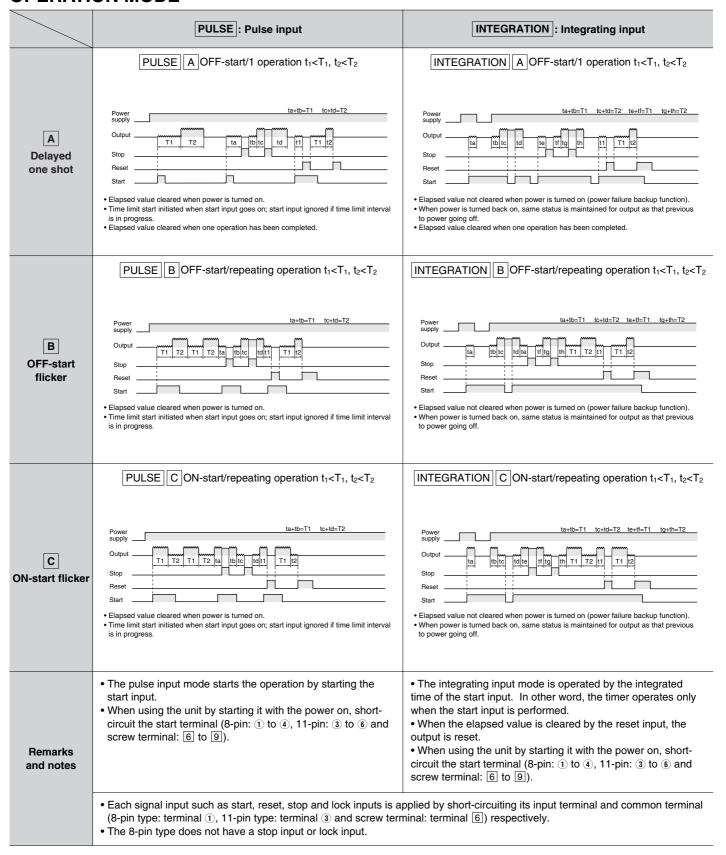
• Changing over the T₁/T₂ setting display

The T1/T2 setting display is changed over by pressing the SET/LOCK switch. (This operation gives no effect on the other operations. The set time and elapsed time (residual time) at T₁ are linked with those at T₂.)

· Changing the set time

- 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) When the set times at T1 and T2 are set to 0, the output becomes ON only while the start input is carried out. However, while the reset input is carried out, the output becomes OFF.

OPERATION MODE



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