ANLY COUNTER

H8DA MULTI-FUNCTION DIGITAL COUNTER / TIMER

CE

CHARACTERISTICS :

- Counter or Timer function selectable
- Scroll-through menu for all parameters
- Proximity and photoelectric switches compatible
- High-speed response allows 10k counts per second
- Online change of set value possible
- 4 levels of key protection provided
- 3 user selectable mode : Count Up, Count Down and Count Up/Down
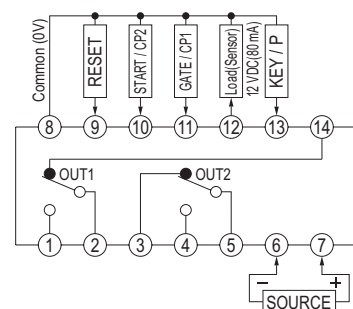- Memory function available
- CE certified

SPECIFICATION :

Operating voltage	AC/DC(V): 12~48 AC/DC(V): 100~240
Allowable operating voltage range	85~110% of rated operating voltage
Rated frequency	50 / 60 Hz
Contact rating	250VAC 5A (resistive load)
Count speed	MAX 30, 1k, 5k or 10k cps
Reset time	MAX 0.1s
Power consumption	Approx. 3.5VA
Life	Mechanical: 5,000,000 times Electrical: 100,000 times
Ambient temperature	-10 ~ +50℃
Ambient humidity	MAX 85%RH
Weight	Approx. 260g

TIME RANGE :

1	0.001s ~ 999.999s	7	0.1m ~ 99999.9m
2	0.01s ~ 9999.99s	8	1m ~ 999999m
3	0.1s ~ 99999.9s	9	1s ~ 99h59m59s
4	1s ~ 999999s	10	1m ~ 9999h59m
5	0.01s ~ 99m59.99s	11	0.1h ~ 99999.9h
6	0.1s ~ 999m59.9s	12	1h ~ 999999h

CONNECTION :

TIMING CHART : (Counter)

Input / Output Mode Setting

One-shot output from Output 1
Self-holding output

One-shot output from Output 2
Self-holding output

Output mode **N** : Output and present value display are maintained until reset.

Up	Down	Up / Down A.B.C

Reset, 999999, Preset 2, Preset 1, 0, Output 1, Output 2
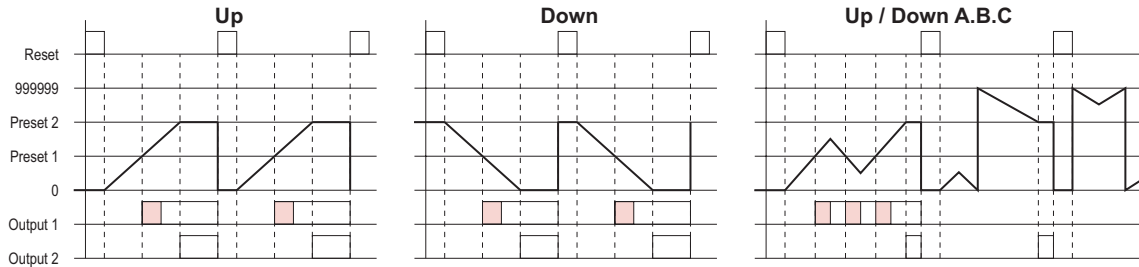
Output mode **F** : Present value display runs continuously. Outputs are maintained until reset.

Up	Down	Up / Down A.B.C

Reset, 999999, Preset 2, Preset 1, 0, Output 1, Output 2
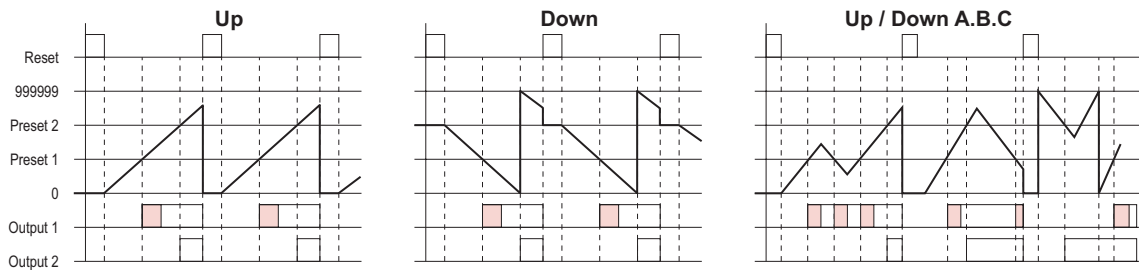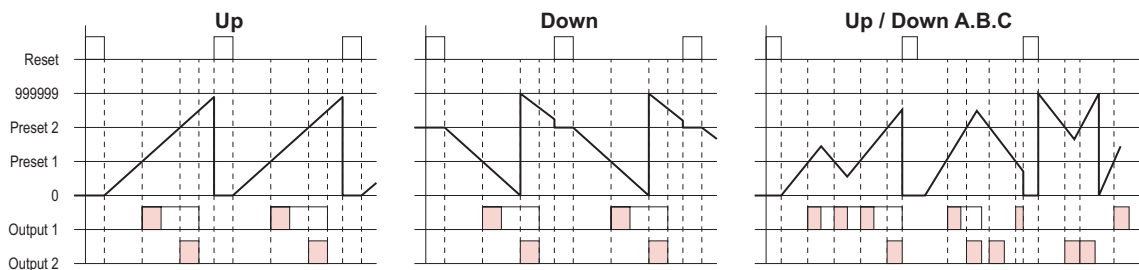
Output mode **C** : Present value is placed in reset start status as soon as count up is reached. The count up is not displayed.
Outputs are 1-shot and operate repeatedly. Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2.
One -shot time periods for Output 1 and 2 are independent.

Up	Down	Up / Down A.B.C

Reset, 999999, Preset 2, Preset 1, 0, Output 1, Output 2
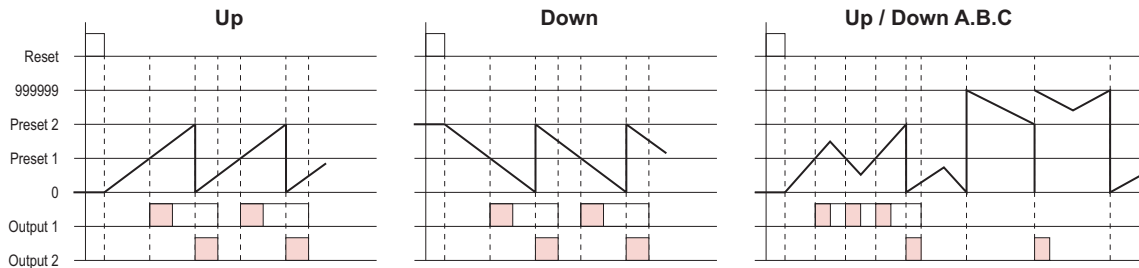
Output mode **R** : Present value is placed in reset start status as soon as count up is reached. Outputs are 1-shot and operate repeatedly.
Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2.
One -shot time periods for Output 1 and 2 are independent.

Up	Down	Up / Down A.B.C

Reset, 999999, Preset 2, Preset 1, 0, Output 1, Output 2
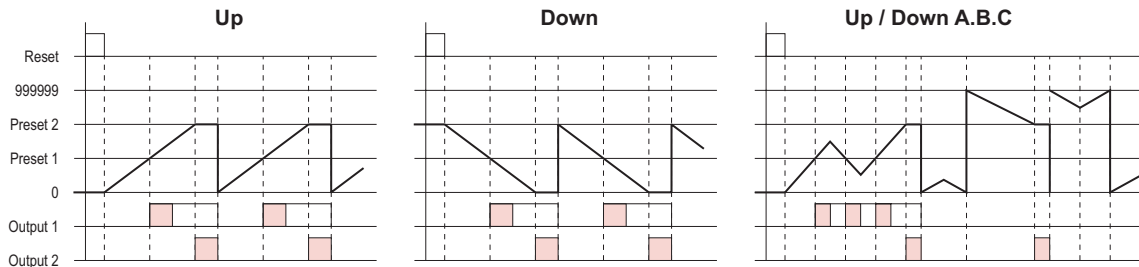
Output mode **K** : Present value runs continuously. Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2.
One-shot time periods for Output 1 and 2 are independent.

Up	Down	Up / Down A.B.C

Reset, 999999, Preset 2, Preset 1, 0, Output 1, Output 2

Output mode P :

Present value display does not change during 1-shot time period, but reset start status is returned to as soon as count is reached.
Outputs are 1-shot and operate repeatedly. Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2.
One -shot time periods for Output 1 and 2 are independent.

	Up	**Down**	**Up / Down A.B.C**

Reset
999999
Preset 2
Preset 1
0
Output 1
Output 2
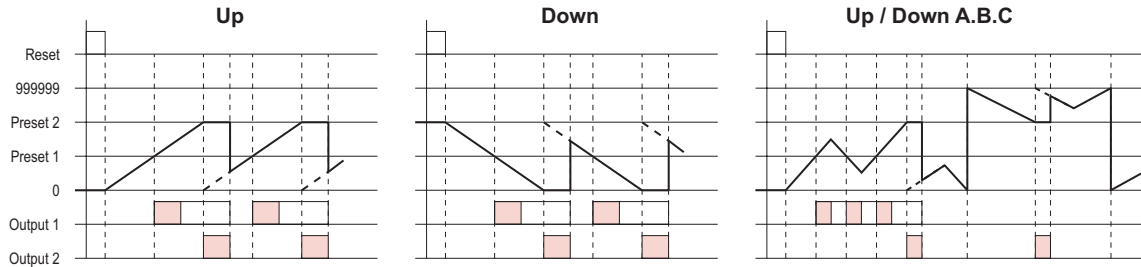
Output mode Q :

Present value runs continuously through 1-shot time period and returns to reset start status immediately afterward.
Outputs are 1-shot and operate repeatedly. Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2.
One -shot time periods for Output 1 and 2 are independent.

	Up	**Down**	**Up / Down A.B.C**

Reset
999999
Preset 2
Preset 1
0
Output 1
Output 2
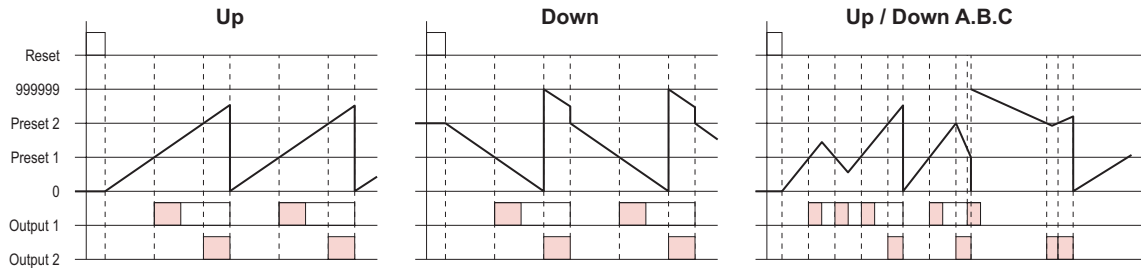
Output mode A :

Present value and output 1 maintain status until reset. Output 1 and 2 operate independently.

	Up	**Down**	**Up / Down A.B.C**

Reset
999999
Preset 2
Preset 1
0
Output 1
Output 2
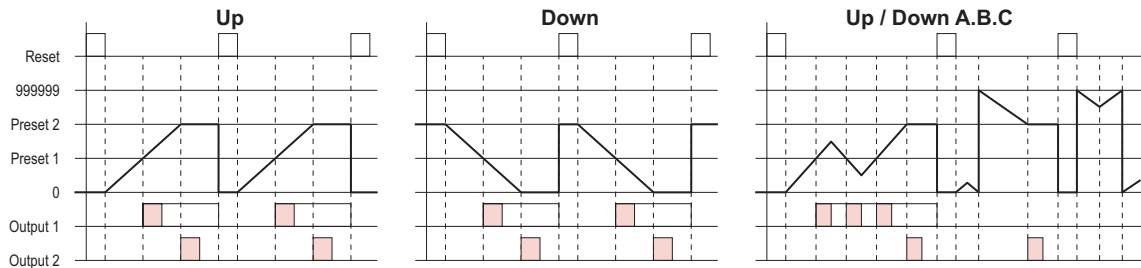
Output mode L :

The display continues to increase/decrease until the overflow or underflow value is reached.
Output 1 is held while the present value is less than or equal to Preset 1.
Output 2 is held while the present value is greater than or equal to Preset 2.
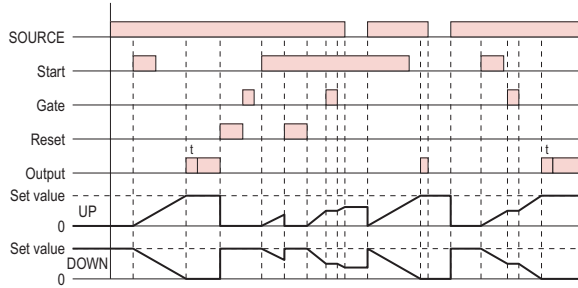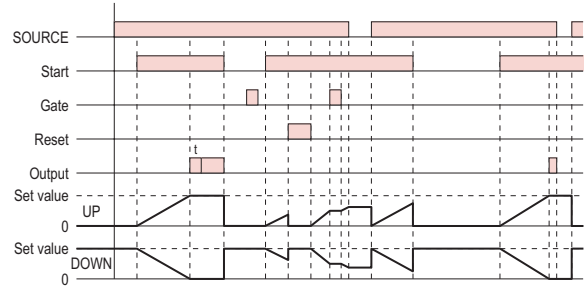
	Up	**Down**	**Up / Down A.B.C**

Reset
999999
Preset 2
Preset 1
0
Output 1
Output 2
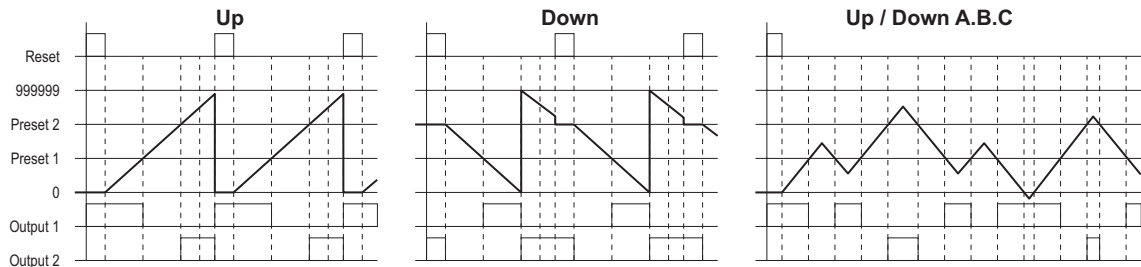
Output mode H :

The display continues to increase/decrease until the overflow or underflow value is reached.
Output 1 is held while the present value is greater than or equal to Preset 1.
Output 2 is held while the present value is greater than or equal to Preset 2.

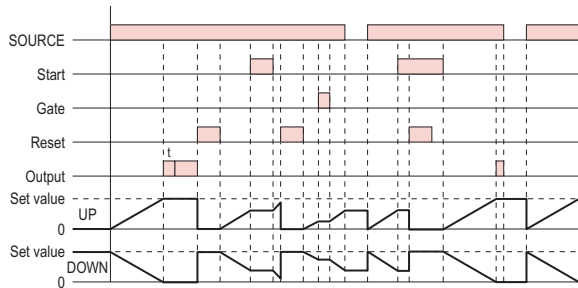|	**Up**	**Down**	**Up / Down A.B.C**

Reset
999999
Preset 2
Preset 1
0
Output 1
Output 2
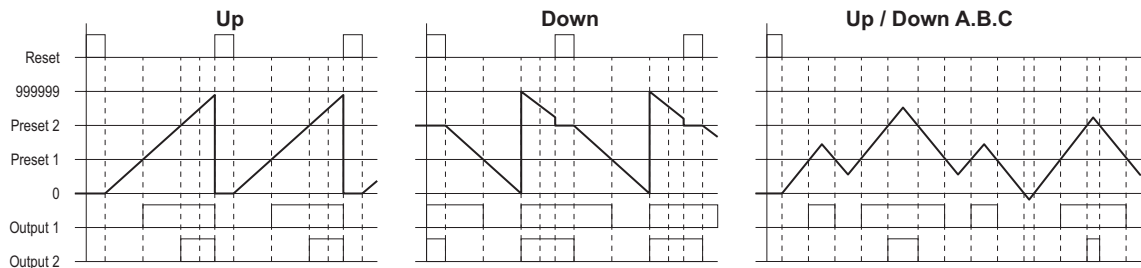
TIMING CHART : (Timer)

Output mode A : Signal ON delay 1
(Timer resets when power comes ON.)

SOURCE
Start
Gate
Reset
Output
Set value
UP
0
Set value
DOWN
0

Output mode A-1 : Signal ON delay 2
(Timer resets when power comes ON.)

SOURCE
Start
Gate
Reset
Output
Set value
UP
0
Set value
DOWN
0

Output mode A-2 : Power ON delay 1
(Timer resets when power comes ON.)

SOURCE
Start
Gate
Reset
Output
Set value
UP
0
Set value
DOWN
0

Output mode A-3 : Power ON delay 2
(Timer dose not reset when power comes ON.)

SOURCE
Start
Gate
Reset
Output
Set value
UP
0
Set value
DOWN
0
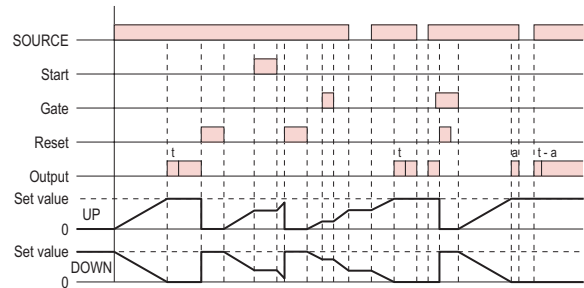
Output mode B : Repeat cycle 1
(Timer resets when power comes ON.)

SOURCE
Start
Gate
Reset
Output
Set value
UP
0
Set value
DOWN
0
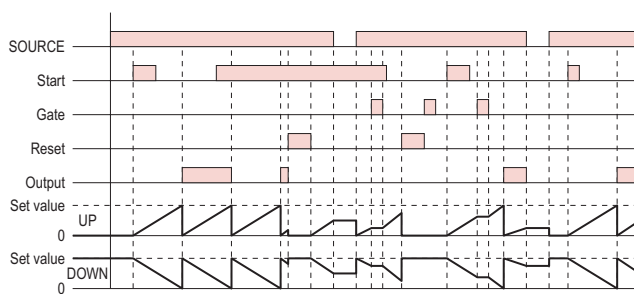
Output mode B-1 : Repeat cycle 2
(Timer dose not reset when power comes ON.)

SOURCE
Start
Gate
Reset
Output
Set value
UP
0
Set value
DOWN
0
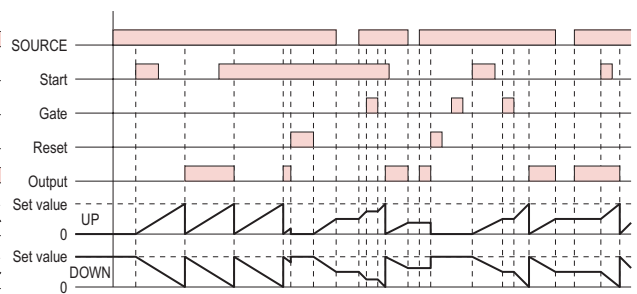
Output mode B-2 : Repeat cycle ON start
(Timer resets when power comes ON.)

SOURCE
Start
Reset
Output
Set value
UP
0
Set value
DOWN
0
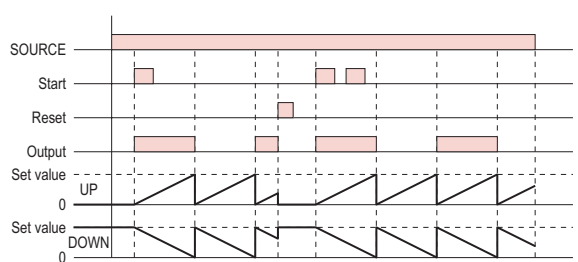
Output mode C : Signal ON/OFF delay
(Timer resets when power comes ON.)

SOURCE
Start
Reset
Output
Set value
UP
0
Set value
DOWN
0
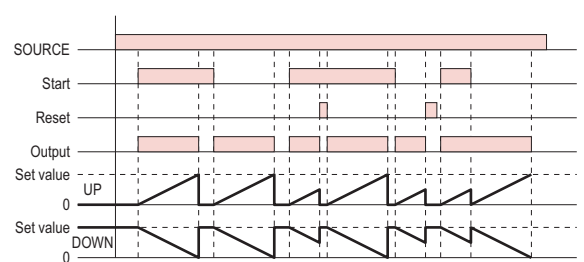
Output mode D : Signal OFF delay
(Timer resets when power comes ON.)

SOURCE
Start
Gate
Reset
Output
Set value
UP
0
Set value
DOWN
0
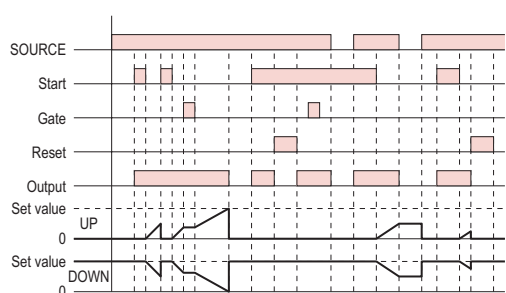
Output mode E : Interval
(Timer resets when power comes ON.)

SOURCE
Start
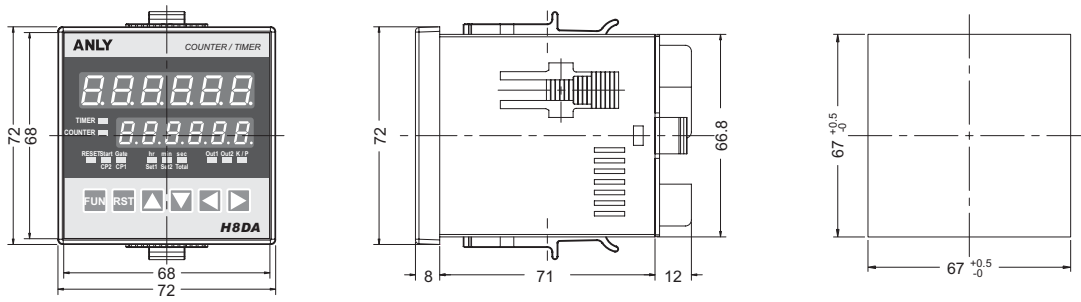Gate
Reset
Output
Set value
UP
0
Set value
DOWN
0
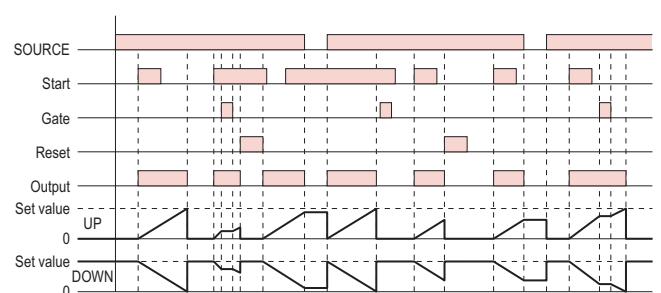
Note. In output mode A, A-1, A-2 and A-3, the control output is selectable between the sustained time period or one-shot time period.

Output mode **F** : Cumulative
(Timer does not reset when power comes ON.)
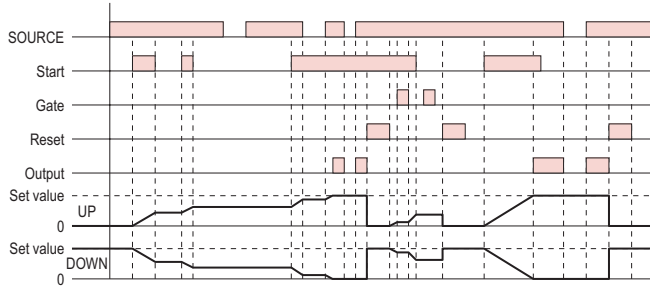
DIMENSIONS : (mm)

Flush Mounting : Using Clamp

NO. H8DA-K-A

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