ANLY COUNTER

H5KLR MULTI-FUNCTION DIGITAL COUNTER

CHARACTERISTICS :

- Proximity and photoelectric switch compatible
- Protection against power surge and high frequency interference
- High-speed response allows 1,000 counts per second
- Online change of set value possible
- Four levels of key protection provided
- Count Up, Count Down or Count Up/Down mode user selectable
- Memory function available
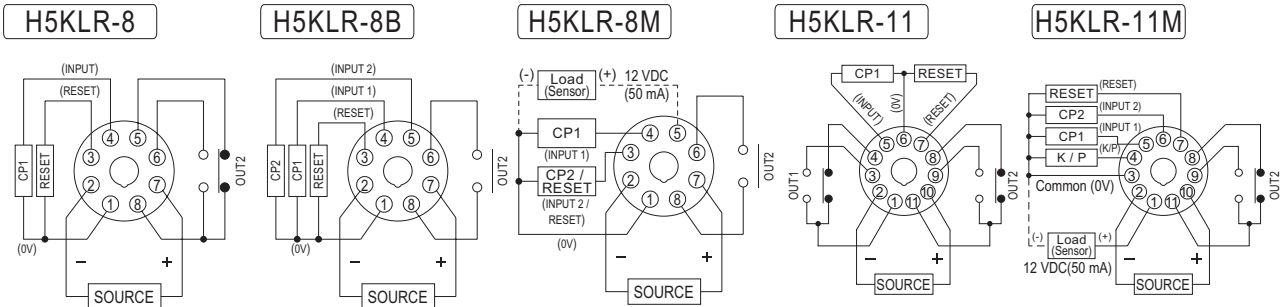- UL, C-UL recognized and CE certified

SPECIFICATION :

Operating voltage	AC/DC(V): 12~48 or 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 cps or 1,000 cps
Reset time	MAX 0.1s
Power consumption	Approx. 2.5VA
Life	Mechanical: 5,000,000 times Electrical: 100,000 times
Ambient temperature	-10 ~ +50℃
Ambient humidity	MAX 85%RH
Weight	Approx. 120g

TYPE SELECTION :

Type	H5KLR-8	H5KLR-8B	H5KLR-8M	H5KLR-11	H5KLR-11M
Count speed	Max 30 cps or 1,000 cps(user program selectable)				
Output contact	1C	1a	1a	2C	1C
Memory	○	○	○	○	○
External Reset	○	○	○	○	○
Count Up	○	○	○	○	○
Count Down	○	○	○	○	○
Count Up/Down		○	○		○

CONNECTION :

H5KLR-8 **H5KLR-8B** **H5KLR-8M** **H5KLR-11** **H5KLR-11M**

Note: **H5KLR-8☐** : When using Proximity(Type NPN) or photoelectric switch, connect (+) to external 12VDC, (-) to pin (1) and (OUT) to pin (4).
(OUT2) to pin (5) for H5KLR-8B only. Connect (+) to pin (5) and (OUT) to pin (4), (OUT2) to pin (3) for H5KLR-8M only.
H5KLR-11 : When using Proximity(Type NPN) or photoelectric switch, connect (+) to external 12VDC, (-) to pin (6) and (OUT) to pin (5)
H5KLR-11M: When using Proximity(Type NPN) or photoelectric switch, connect (+) to pin (1), (-) to pin (3), (OUT) to pin (5) and (OUT2) to pin (6)
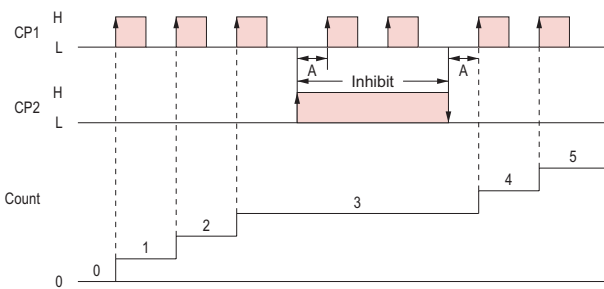
TIMING CHART :
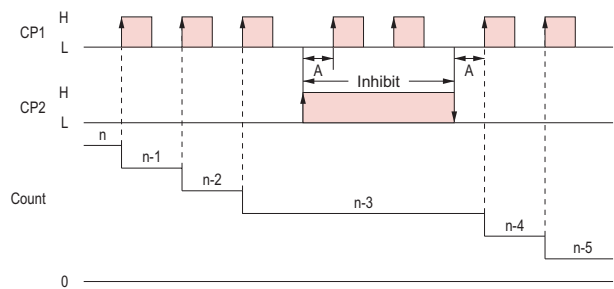
Input Modes and Count Value

Please note: 1. "A" indicates minimum signal width; "B" indicates 1/2 of minimum signal width. Signals may not be counted if the minimums for A and B are not met.
2. H and L

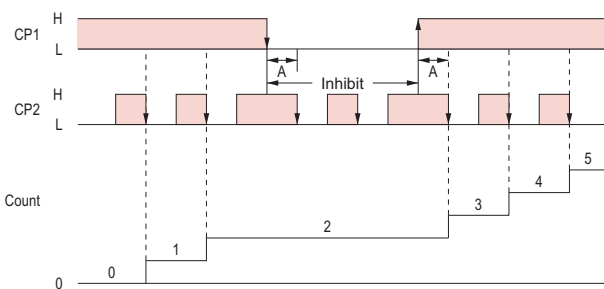| Signal	No-voltage input	Voltage input
H	Short circuit	4.5 ~ 30 VDC
L	Open circuit	0 ~ 2 VDC

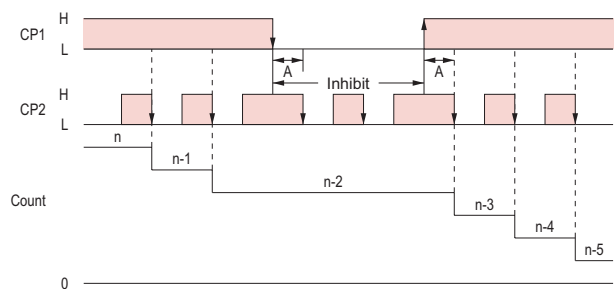**Up (increment) mode -** Count at rising edge
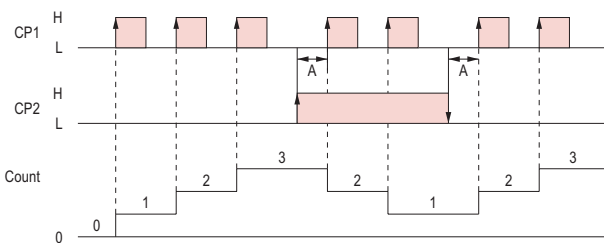
Down (decrement) mode - Count at rising edge

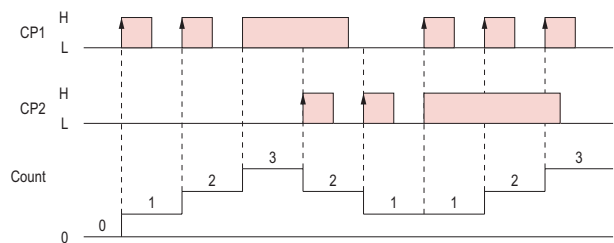**Up (increment) mode -** Count at falling edge

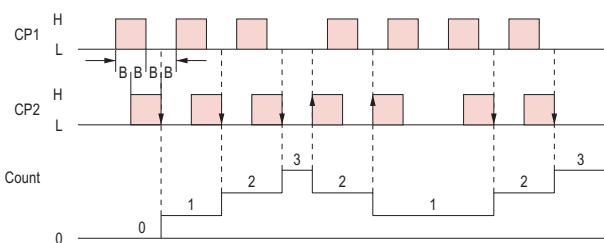**Down (decrement) mode -** Count at falling edge

Up/Down A Command input mode

Up/Down B Individual input mode
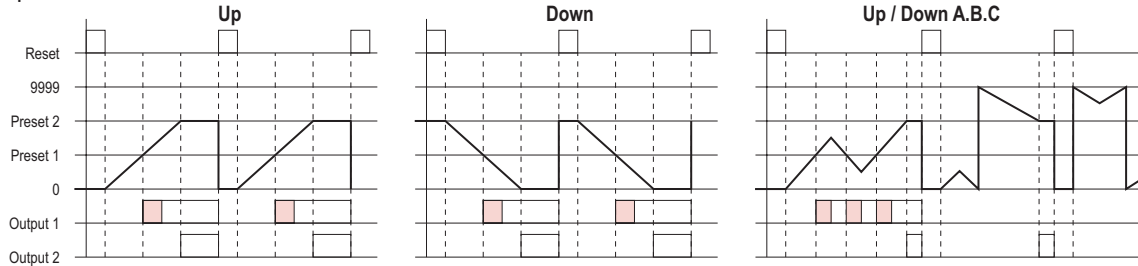
Up/Down C Phase difference input mode (See note 1.)

Note 1. Set the same counting speed for CP1 and CP2 when in Up/Down C mode.

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**

Output mode F : Present value display runs continuously. Outputs are maintained until reset.

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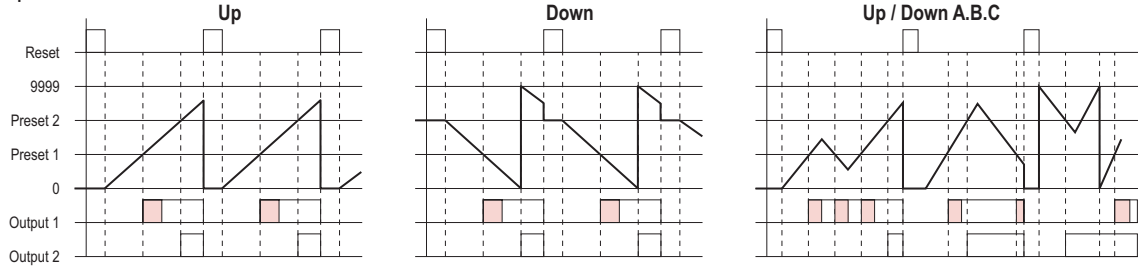
Output mode C : Present value is placed in reset start status as soon as count up is reached. The count up is not displayed. Outputs are 1-shot and operate repeatedly. Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2. One -shot time periods for Output 1 and 2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

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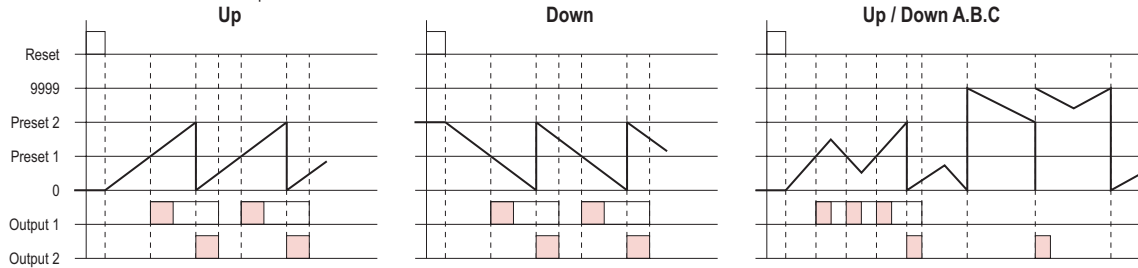
Output mode R : Present value is placed in reset start status as soon as count up is reached. Outputs are 1-shot and operate repeatedly. Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2. One -shot time periods for Output 1 and 2 are independent.

Up **Down** **Up / Down A.B.C**
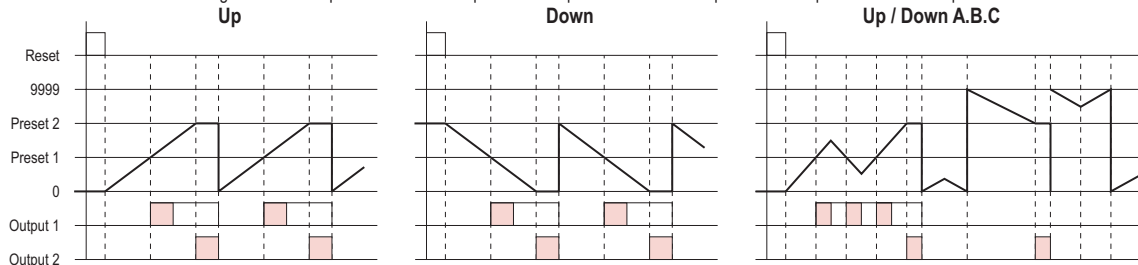
Output mode K : Present value runs continuously. Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2. One-shot time periods for Output 1 and 2 are independent.

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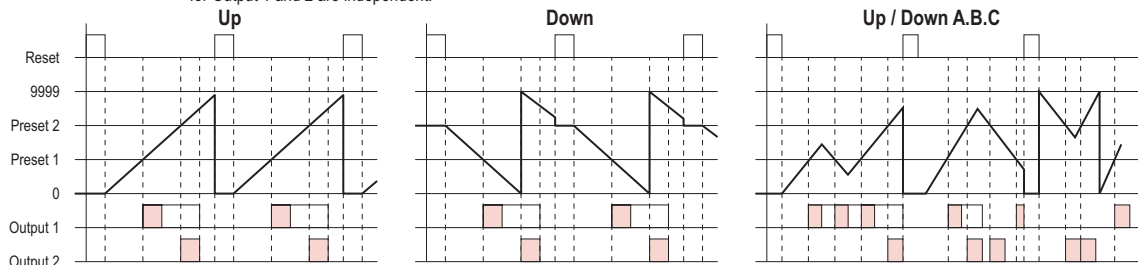
Output mode P : Present value display does not change during 1-shot time period, but reset start status is returned to as soon as count is reached. Outputs are 1-shot and operate repeatedly. Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2. One -shot time periods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

Up **Down** **Up / Down A.B.C**
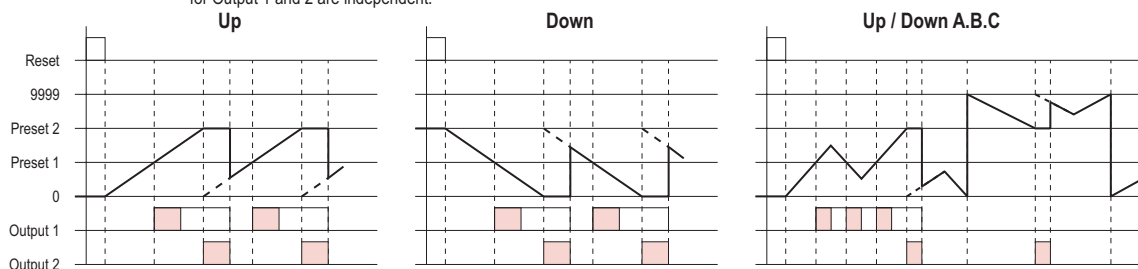
Output mode Q : Present value runs continuously through 1-shot time period and returns to reset start status immediately afterward. Outputs are 1-shot and operate repeatedly. Output 1 is self-holding, and goes off after expiration of the 1-shot period for Output 2. One-shot time periods for Output 1 and 2 are independent.
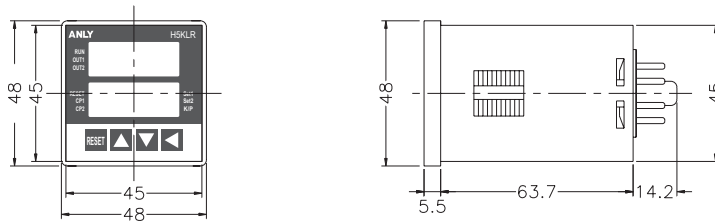
Up	Down	Up / Down A.B.C

Reset
9999
Preset 2
Preset 1
0
Output 1
Output 2
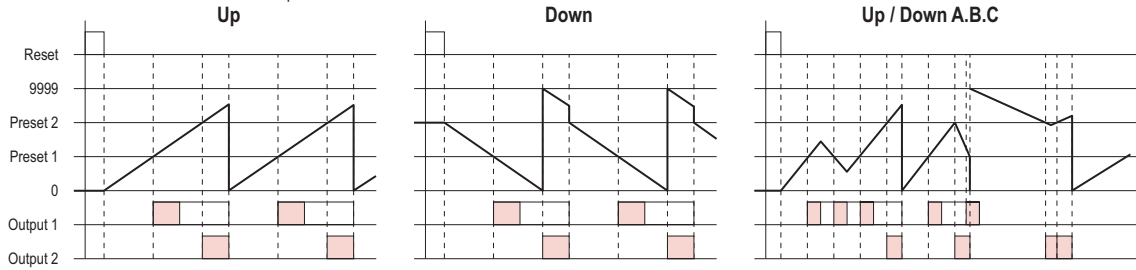
Output mode A : Present value and output 1 maintain status until reset. Output 1 and 2 operate independently.

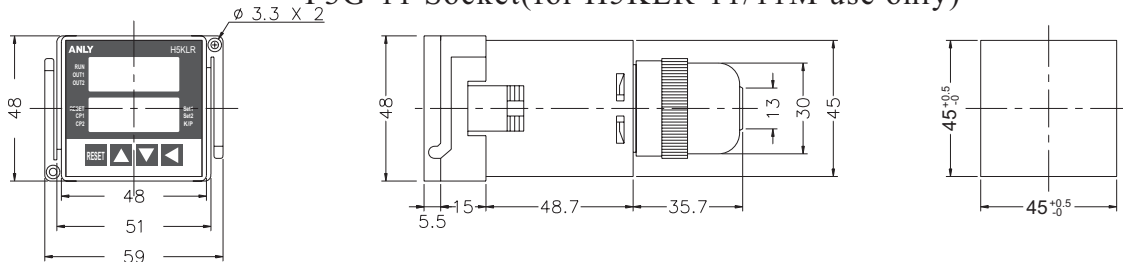| Up	Down	Up / Down A.B.C

Reset
9999
Preset 2
Preset 1
0
Output 1
Output 2
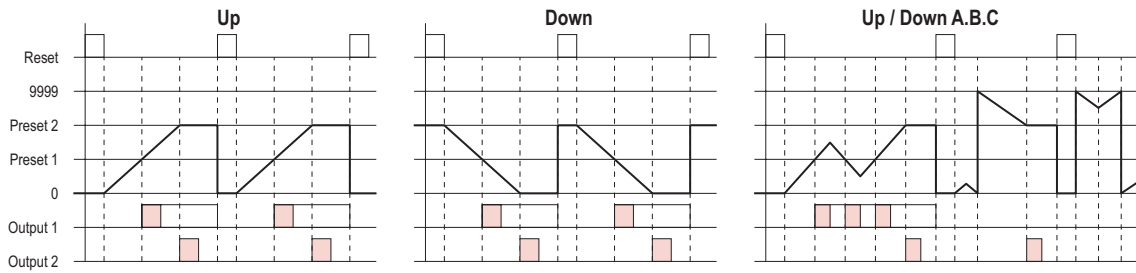
DIMENSIONS : (mm)

N type(Surface Mounting): Using P2CF-08 , PF085A Socket or
PF113A Socket(for H5KLR-11/11M use only)

48
45
45
48
5.5
63.7
14.2

Y type(Flush Mounting): Using Y50 Frame & US-08 Socket , P3G-08 Socket or
P3G-11 Socket(for H5KLR-11/11M use only)

ø 3.3 X 2
48
48
51
59
48
13
30
45
5.5
15
48.7
35.7
45 +0.5 -0
45 +0.5 -0

ANLY ELECTRONICS CO., LTD.

http://www.anly.com.tw