



H5KLR

MULTI-FUNCTION DIGITAL COUNTER

User's Manual

RESTRICTIONS ON USE

When using this product in applications that require particular safety or when using this product in important facilities, please pay attention to the safety of the overall system and equipment. Install fail-safe mechanisms, perform redundancy checks and periodic inspections and adopt other appropriate safety measures when it is necessary.

SAFETY PRECAUTION

This manual uses the following symbols to ensure safe operation of this timer.

- WARNING** Warnings are indicated when mishandling this product might result in death or serious injury to user.
- CAUTION** Cautions are indicated when mishandling this product might result in minor injury to the user, or only physical damage to the timer.

WARNING

- Note this incorrect wiring of this product can damage it and lead to other hazards. Make sure the product has been correctly wired before turning the power ON.
- Before wiring, or removing / mounting the product, be sure to turn the power OFF. Failure to do so might cause electric shock.
- Do not touch electrically charged parts such as the power terminals. Doing so might cause electric shock.
- Do not disassemble the product. Doing so might cause electric shock or faulty operation.

CAUTION

- Use the product within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere and etc.). Failure to do so might cause fire or faulty operation.
- Firmly tighten the wires to the socket. Insufficient tightening of the wires to the socket might cause fire.

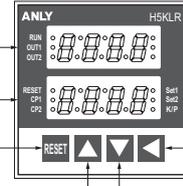
SPECIFICATIONS

Operating voltage	AC/DC : 12~48V / AC/DC : 100~240V
Allowable operating voltage range	85 ~ 110% of rated operating voltage
Rated frequency	50 / 60Hz
Contact rating	250VAC 5A (Resistive load)
Count speed	MAX 30 cps or 1,000 cps
Power consumption	Approx. 2.5VA
Life	Mechanical : 5,000,000 times / Electrical : 100,000 times
Ambient temperature	-10~+50°C
Ambient humidity	MAX 85% RH
Weight	Approx. 120g

NAMES AND FUNCTIONS OF FACEPLATE

LEDs

- RUN: Counting indicator
- OUT1: Control output 1 indicator
- OUT2: Control output 2 indicator
- RESET: Reset indicator
- CP1: Signal input 1 indicator
- CP2: Signal input 2 indicator
- Set1: 1st set value indicator
- Set2: 2nd set value indicator
- K/P: Key protection indicator



- Upper display**
Display PV values (current count values, etc.) or setup items.
- Lower display**
Display SV values (set count values, etc.) and other parameter values.
- ▲ key** : Performing arithmetic shift operations and switches the display. Hold down for at least 3 seconds to enter setting modes.
- ▼ key** : Used for incrementing or decrementing numeric values. And show the first set value or second set value.

SETTING PROCEDURE

POWER ON or Reset

SPECIAL FUNCTION KEY

- ▲ + ▼ (PRESS FOR 3s)**
ON / OFF Key protect
- RESET + ▲ (PRESS FOR 3s)**
Switch to input setting mode

- (1) Stop** **▲ (PRESS FOR 3s)** or **(2) Counting** **▲ (PRESS FOR 3s)**
Switch to input setting mode

INPUT MODE

- 1** Change the mode
 - 1-1 UP 1-3 UP/DOWN A
 - 1-2 DOWN 1-4 UP/DOWN B
 - 1-5 UP/DOWN C
- ※ UP/DOWN MODE not available on ASK-4DR□, H5KLR-8/11 type

Switch to output setting mode or Save and back to the operation mode

OUTPUT MODE

- 2** Change the mode
- 2-1 Mode N 2-4 Mode R 2-7 Mode Q
- 2-2 Mode F 2-5 Mode K 2-8 Mode A
- 2-3 Mode C 2-6 Mode P See reverse page for more details

Switch to output 2 time setting mode or Save and back to the operation mode

OUTPUT 2 TIME

- 3** Change the set value
 - 3-1 0.01s 3-4 0.2s 3-7 2s 3-8 20s
 - 3-2 0.05s 3-5 0.5s 3-8 5s
 - 3-3 0.1s 3-6 1s 3-9 10s
- ※ Not available for Mode N and Mode F

Switch to output 1 time setting mode or Save and back to the operation mode

OUTPUT 1 TIME

- 4** Change the set value
 - 4-1 Hold 4-4 0.1s 4-7 1s 4-8 10s
 - 4-2 0.01s 4-5 0.2s 4-8 2s 4-b 20s
 - 4-3 0.05s 4-6 0.5s 4-9 5s
- ※ Available on H5KLR-11 type only

Switch to count speed setting mode or Save and back to the operation mode

COUNT SPEED

- 5** Change the set value
- 5-1 30 cps
- 5-2 1k cps

Switch to reset time setting mode or Save and back to the operation mode

MINIMUM RESET TIME

- 6** Change the set value
- 6-1 20ms
- 6-2 1ms

Switch to the position of decimal point setting mode or Save and back to the operation mode

DECIMAL POINT

- 7** Move the decimal point position
- 7-1 9999
- 7-2 999.9
- 7-3 99.99

Switch to prescale value setting mode or Save and back to the operation mode

PRESCALE VALUE

- 8** Change the set value
- Changing the digit of prescale value
- 8-1 0.01~9.99

Switch to key protection level setting mode or Save and back to the operation mode

KEY PROTECTION LEVEL

- 9** Change the set level
- 9-1 Lock function key
- 9-2 Lock reset key
- 9-3 Lock preset value key
- 9-4 Lock all key

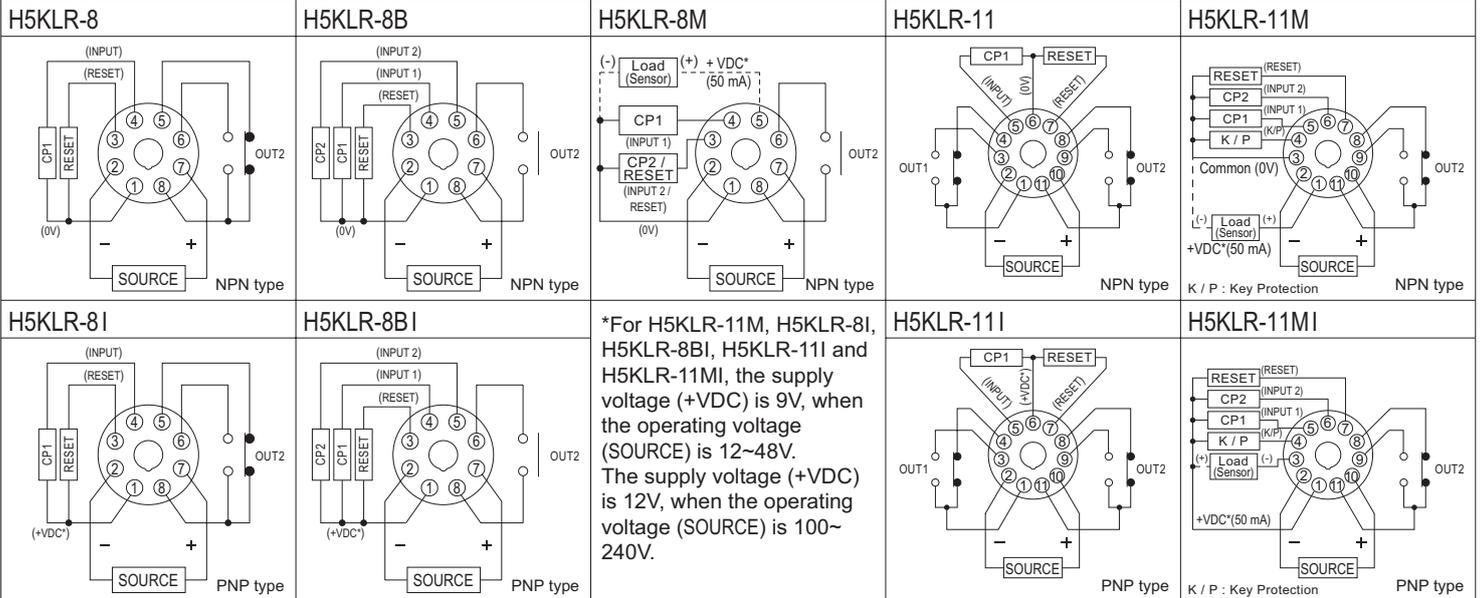
Switch to power off setting mode or Save and back to the operation mode

POWER OFF MODE

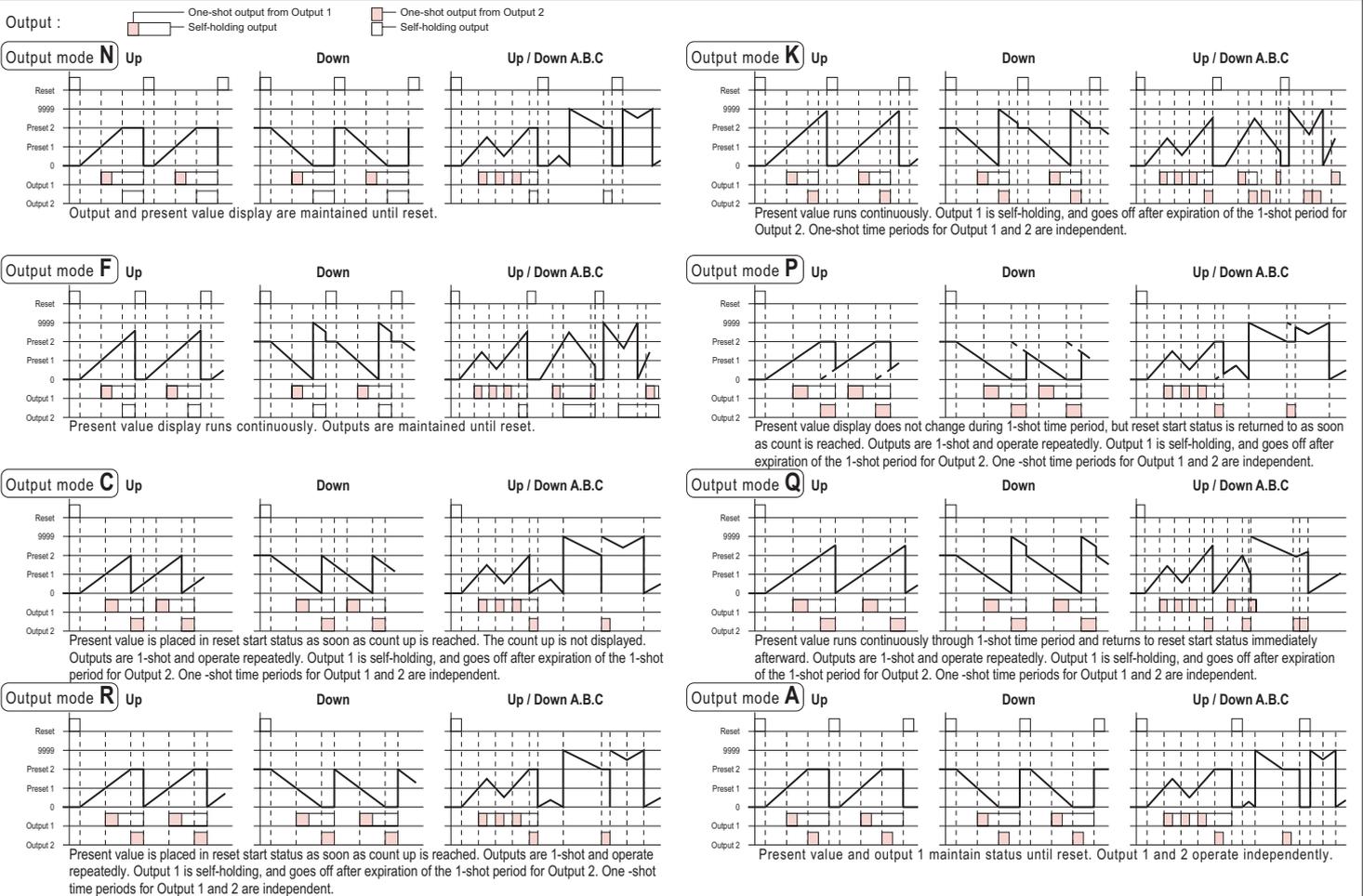
- 10** Change the mode
- R-1 Power off reset
- R-2 Power off memory

Switch to Input setting mode or Save and back to the operation mode

CONNECTION



TIMING CHART



DIMENSION(mm)

