



H5CLR / ASY- 4DR

MULTI-FUNCTION DIGITAL TIMER

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. This product is rated at Class II □.

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		NAMES AND FUNCTIONS OF FACEPLATE	
Operating voltage	AC/DC : 12~48V / AC/DC : 100~240V	<p>LEDs RUN: Timing indicator OUT: Control output indicator K/P: Key protection indicator RESET: Reset indicator START: Start indicator GATE: Gate indicator h: Time unit display (Hour) m: Time unit display (Minute) s: Time unit display (Second)</p> <p>key : Reset the output or save the value of setting.(after save than back to the operation mode)</p>	<p>Upper display Display PV values (current time, etc.) or setup items.</p> <p>Lower display Display SV values (set time, etc.) and other parameter values.</p> <p>key : Performing arithmetic shift operations and switches the display. Hold down for at least 3 seconds to enter setting modes.</p> <p>key : Used for incrementing or decrementing numeric values.</p>
Allowable operating voltage range	85 ~ 110% of rated operating voltage		
Rated frequency	50 / 60Hz		
Contact rating	250VAC 5A (Resistive load)		
Reset time	MAX 0.1s		
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(H5CLR) / 150g(ASY-4DR)		

SETTING PROCEDURE

POWER ON or Reset

SPECIAL FUNCTION KEY

- 1** **PRESS FOR 3s** Switch ON / OFF Key protection
- 2** **PRESS FOR 3s** Switch to input setting mode

TIME RANGE Switch to input setting mode

- 1** Select the time range
- 1-1 9.999s 1-5 999.9m 1-9 99m59s
- 1-2 99.99s 1-6 9999m 1-A 99h59m
- 1-3 999.9s 1-7 999.9h
- 1-4 9999s 1-B 9999h

Switch to count up/down setting mode or Save and back to the operation mode

UP / DOWN MODE

- 2** Select count up or count down
- 2-1 Count up
- 2-2 Count down

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

OUTPUT MODE

- 3** Select output mode
- 3-1 Mode A 3-5 Mode B 3-9 Mode D
- 3-2 Mode A1 3-6 Mode B1 3-A Mode E
- 3-3 Mode A2 3-7 Mode B2 3-b Mode F
- 3-4 Mode A3 3-8 Mode C See reverse page for more details.

※ Mode A1,A2,A3,B1,B2,C,D and F are not available on ASY-4DR □ and H5CLR-8

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

OUTPUT TIME

- 4** Select output time
- 4-1 Hold 4-4 1s 4-7 15s
- 4-2 0.1s 4-5 5s 4-8 20s
- 4-3 0.5s 4-6 10s

Switch to input signal time setting mode or Save and back to the operation mode

※ Not functionable on MODE C,D,E and F

INPUT SIGNAL TIME

- 5** Select input signal time
- 5-1 20ms
- 5-2 1ms

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

※ Not available for ASY-4DR □ and H5CLR-8

KEY PROTECTION LEVEL

- 6** Select key protection level
- 6-1 Lock function key
- 6-2 Lock reset key
- 6-3 Lock preset value key
- 6-4 Lock all key

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

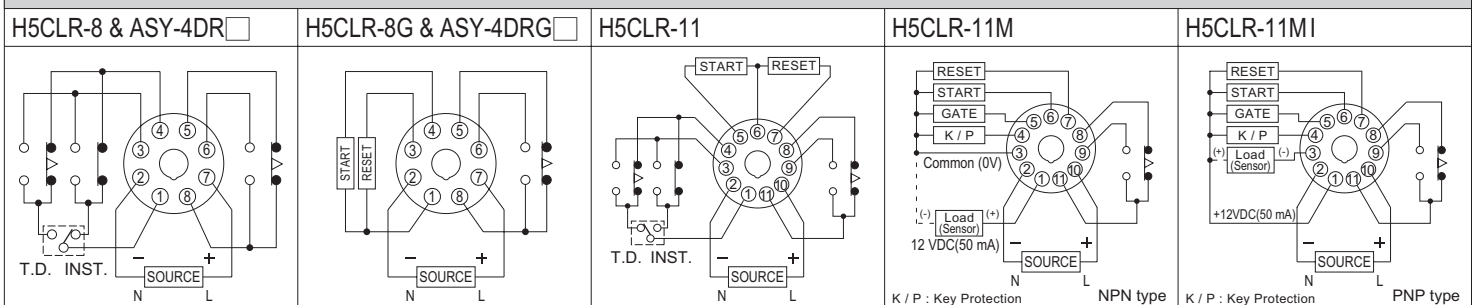
OUTPUT CONTACT

- 7** Select output contact
- 7-1 2C
- 7-2 1A1C

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

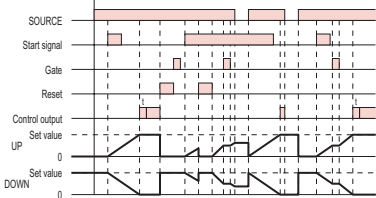
※ Available on H5CLR-8/-11 and ASY-4DR □ type only

CONNECTION



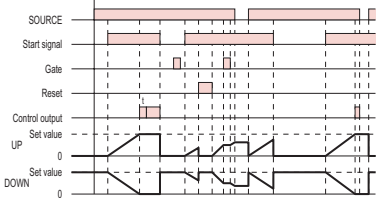
TIMING CHART(Output mode)

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



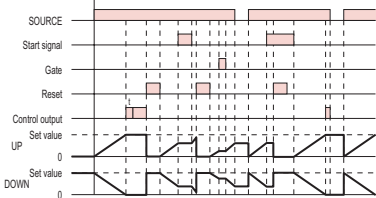
Timing starts when the start signal goes ON. *Note1
The control output is controlled using a sustained or one-shot time period.

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



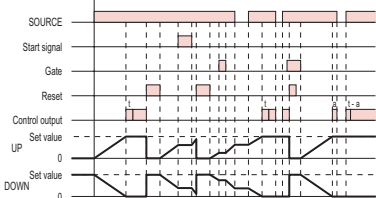
Timing starts when the start signal goes ON, and is reset when the start signal goes OFF. *Note1
The control output is controlled using a sustained or one-shot time period.

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



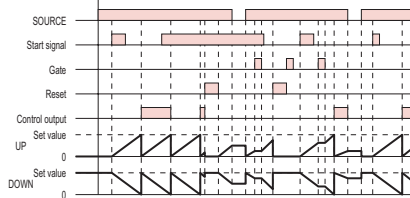
Timing starts when the reset input goes OFF.
The start signal disables the timing function (i.e., same function as the gate input).
The control output is controlled using a sustained or one-shot time period.

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



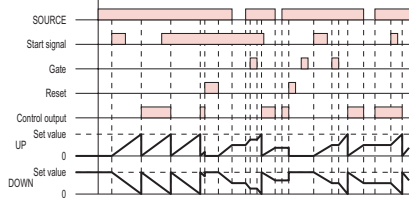
Timing starts when the reset input goes OFF.
The start signal disables the timing function (i.e., same function as the gate input).
The control output is controlled using a sustained or one-shot time period.

B : Repeat cycle 1 (Timer resets when power comes ON.)



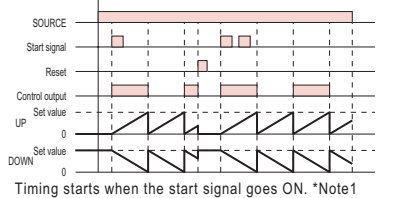
Timing starts when the start signal goes ON. *Note1
The status of the control output is reversed when time is up (OFF at start).

B-1 : Repeat cycle 2 (Timer dose not reset when power comes ON.)



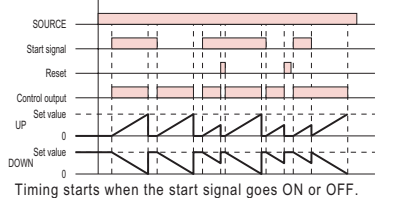
Timing starts when the start signal goes ON. *Note1
The status of the control output is reversed when time is up (OFF at start).

B-2 : Repeat cycle ON start (Timer resets when power comes ON.)



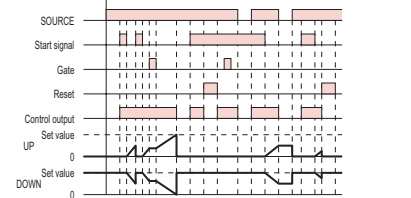
Timing starts when the start signal goes ON. *Note1
The status of the control output is reversed when time is up (OFF at start).

C : Signal ON/OFF delay (Timer resets when power comes ON.)



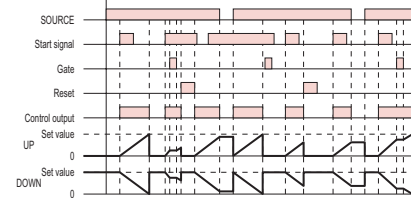
Timing starts when the start signal goes ON or OFF.
The status of the control output is ON when the start signal goes ON or OFF.

D : Signal OFF delay (Timer resets when power comes ON.)



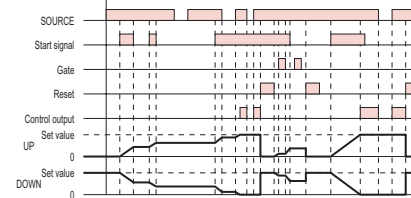
The control output is ON when the start signal is ON (except when the power is OFF or the reset is ON).
The timer is reset when time is up.

E : Interval (Timer resets when power comes ON.)



Timing starts when the start signal comes ON. *Note1
The control output is reset when time is up.

F : Cumulative (Timer does not reset when power comes ON.)

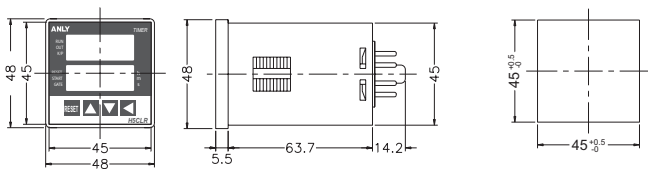


Start signal enables timing (timing is stopped when the start signal is OFF or when the power is OFF)
A sustained control output is used.

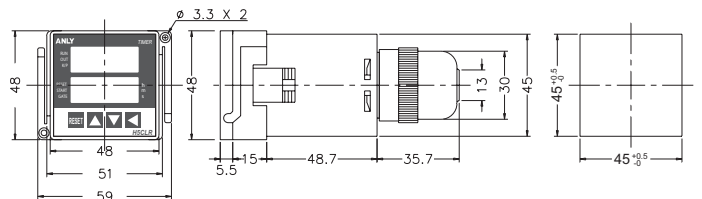
*Note1. While the start signal is ON, the timer starts when power comes ON or when the reset input goes OFF.

DIMENSION(mm)

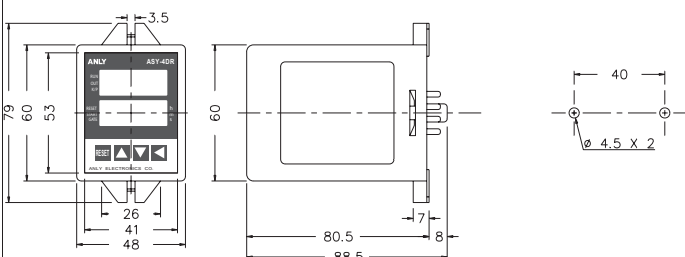
H5CLR



H5CLR + Y-50 + US-08



ASY-4DRN / ASY-4DRGN



ASY-4DRY / ASY-4DRGY + US-08

