H3C-R

MULTI-FUNCTION
ANALOGUE 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.

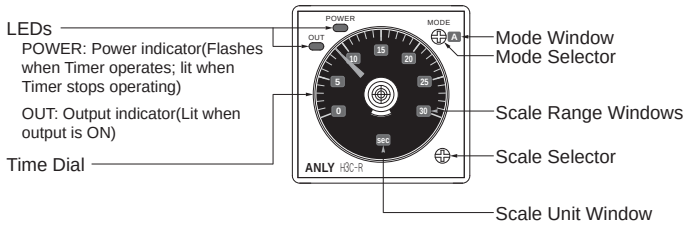
⚠ CAUTION

- Use the product within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere 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.

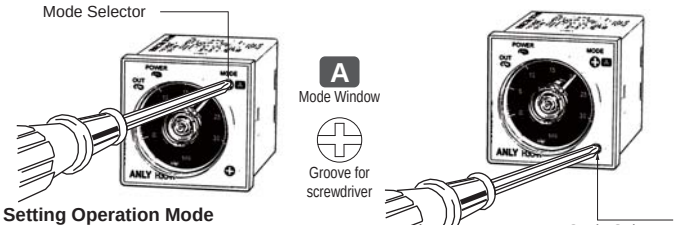
SPECIFICATIONS

Operating voltage	AC/DC : 24～240V
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. 3VA
Life	Mechanical : 5,000,000 times / Electrical : 100,000 times
Ambient temperature	-10～+50 ℃
Ambient humidity	MAX 85% RH
Weight	Approx. 100g

NAMES AND FUNCTIONS OF FACEPLATE



BASIC SETTING

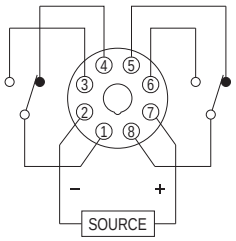


Setting Operation Mode
Turn the Mode Selector with a screwdriver in either clockwise or counter-clockwise direction until the desired operation mode (A, A4, B, B3, B4, C, E, or J) is visible through the Mode Window. Make sure the selector snaps into a secured position, not between two modes.

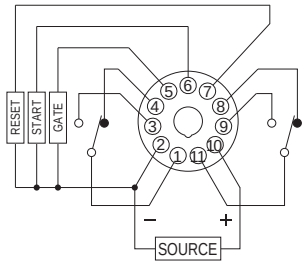
Setting Time Scale
Turn the Scale Selector with a screwdriver and the time scale will cycle through all values. Stop when the desired scale range (1.2, 3, 12, 30) and the scale unit (sec, min, hrs, 10h) are visible through the Scale Range Windows and the Scale Unit Window respectively.
Clockwise turns increment the time scale; counter-clockwise turns decrement the scale.
Make sure the selector snaps into a secured position, not between two scales.

CONNECTION

H3C-R

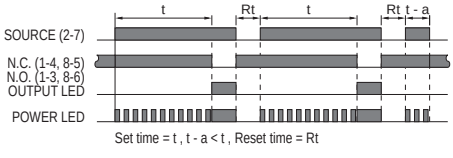


H3C-R11



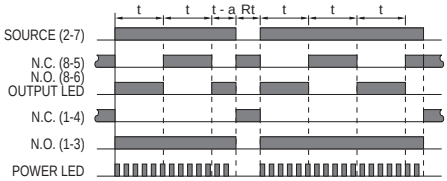
TIMING CHART(Output mode) for H3C-R

A : ON delay (2C)



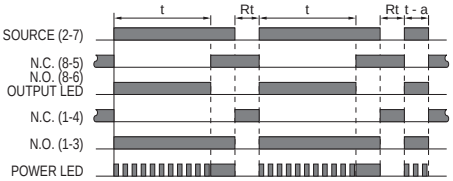
Set time = t , t - a < t , Reset time = Rt

B3 : Repeat cycle ON start (1A1C)



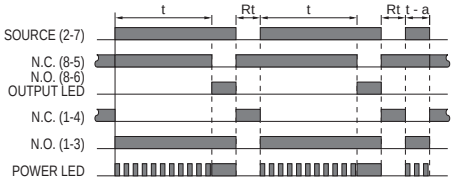
Set time = t , t - a < t , Reset time = Rt

E : Interval (1A1C)



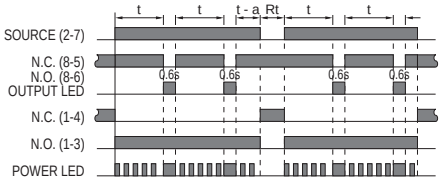
Set time = t , t - a < t , Reset time = Rt

A4 : ON delay (1A1C)



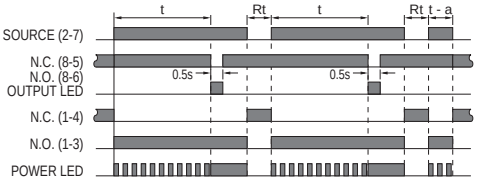
Set time = t , t - a < t , Reset time = Rt

B4 : Repeat one shot output (1A1C)



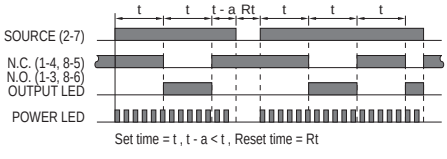
Set time = t , t - a < t , Reset time = Rt

J : One shot output (1A1C)



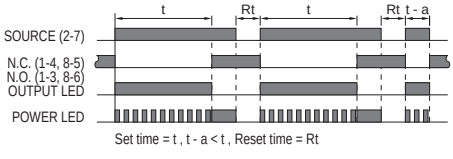
Set time = t , t - a < t , Reset time = Rt

B : Repeat cycle OFF start (2C)



Set time = t , t - a < t , Reset time = Rt

C : Interval (2C)

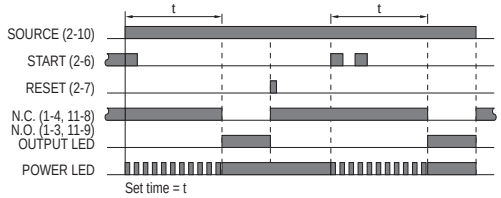


Set time = t , t - a < t , Reset time = Rt

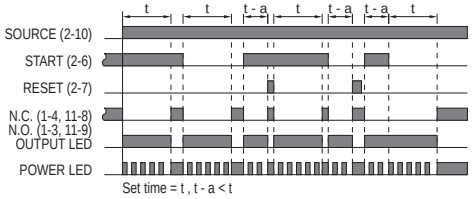
Product is subject to change without notice.

TIMING CHART(Output mode) for H3C-R11

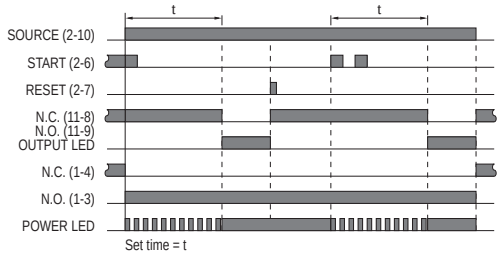
A : ON delay (2C)



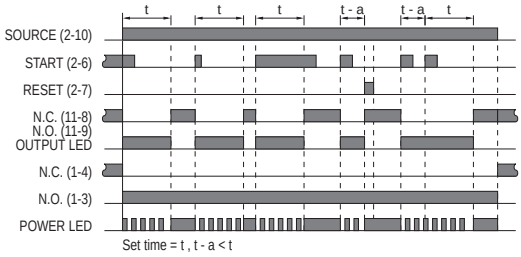
C : Signal ON/OFF delay (2C)



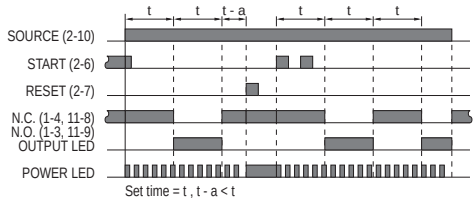
A4 : ON delay (1A1C)



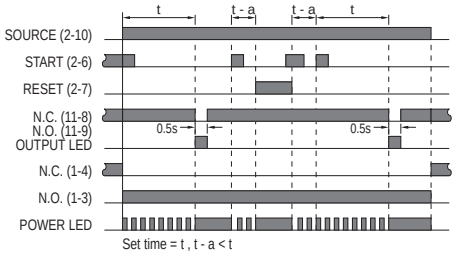
E : Interval (1A1C)



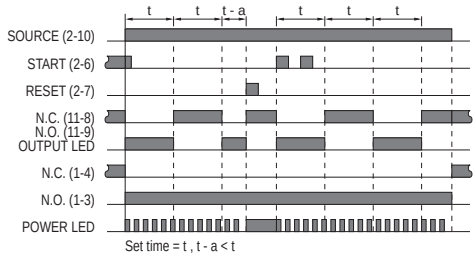
B : Repeat cycle OFF start (2C)



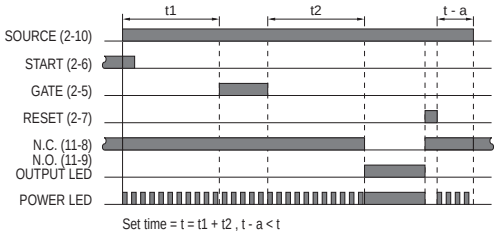
J : One shot output (1A1C)



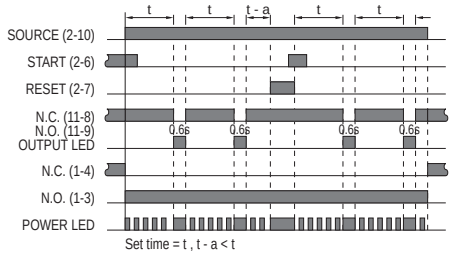
B3 : Repeat cycle ON start (1A1C)



Application of Gate terminal :



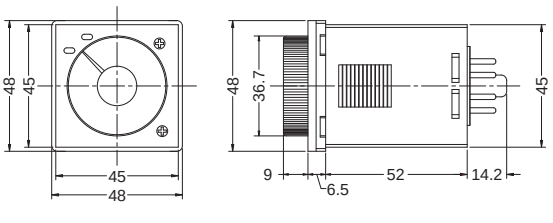
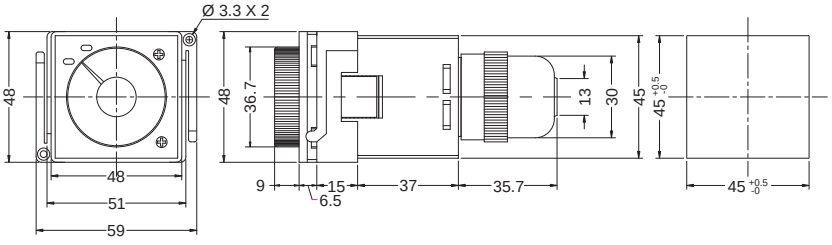
B4 : Repeat one shot output (1A1C)



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

DIMENSION(mm)

H3C-R or H3C-R11



H3C-R + Y-50 + US-08