H3CR

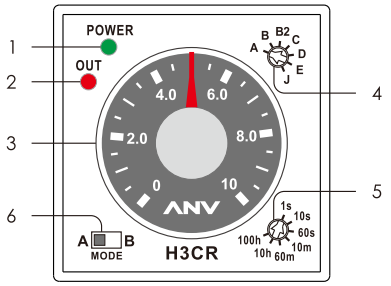
DIN Size W48 × H48mm

- Wide operating voltage range 12~240VAC/DC
- 7 field-selectable output modes for various applications
- 7 field-selectable time range, longest time 100 hours
- Short body design, about 68mm
- A/B mode slide switch(H3CR-A8)

SPECIFICATION

MODEL		H3CR-A8	H3CR-A8X	H3CR-A
DIMENSIONS		48H x 48W x 80.3D(mm)		
RATED VOLTAGE		12 ~ 240VAC/DC		
TIME RANGE		1S, 10S, 60S, 10M, 60M, 10H, 100H		
CONTROL OUTPUT		A/B Mode	Time Limit 1C 2+1 Start 2+3 Reset 2+4 Gate	Time Limit 2C 2+6 Start 2+7 Reset 2+5 Gate
RESET TIME		0.1sec max.		
ACCURACY	REPEAT ERROR	±0.3% max.		
	SETTING ERROR	±5% max.		
	VOLTAGE ERROR	±0.5% max.		
	TEMPERATURE ERROR	±2% max.		
LIFE	MECHANICAL	5×10^6 times		
	ELECTRICAL	10^5 times		
INSULATION RESISTANCE		100MΩ or more between input terminals and case(ground) at DC 500V		
DIELECTRIC STRENGTH		2000VAC, 50/60Hz for 1min (between current-carrying metal parts and exposed noncurrent-carrying metal parts) 2000VAC, 50/60Hz for 1min(betweencontrol output terminals and operating circuit) 1000VAC, 50/60Hz for 1min(between contacts not located next to each other)		
VIBRATION RESISTANCE		Destruction: 10 to 55 Hz with 0.75-mm single amplitude each in 3 directions for 2 hours each		
		Malfunction: 10 to 55 Hz with 0.5-mm single amplitude each in 3 directions for 10 minutes each		
SHOCK RESISTANCE		Destruction: 1,000 m/s^2 3 times each in 6 directions		
		Malfunction: 100 m/s^2 3 times each in 6 directions		
AMBIENT TEMPERATURE		-10℃~+55℃		
AMBIENT HUMIDITY		45~85%RH		
DEGREE OF PROTECTION		IP40(Panel Surface)		
WEIGHT		Approx. 105g		

PART DESCRIPTION



SYMBOL	FUNCTION
1	Power indicator(G) Timing: Flicker Time up: Light
2	Output indicator
3	Setting time value
4	Operation mode selector (A, B, B2, C, D, E, J)
5	Time unit selector (1s, 10s, 60s, 10m, 60m, 10h, 100h)
6	A/B MODE switch (A : 2c , B : 1a1c)

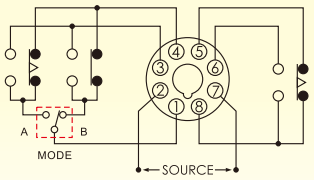
Base Setting

Selection of Operating Mode and Time Unit: Use a Phillips head or flathead screwdriver to turn the selector switch. It can be turned to the left or right to switch. The switch has a latch position, please be sure to cooperate with the latch position switch, otherwise it may cause malfunction. Switching the action mode or time unit mode will cause the timer Malfunction, be sure to turn off the power before switching.

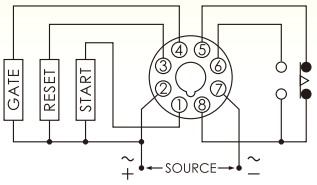
Usable screwdrivers
Flat head: Width 2.5 to 3.0 mm

CONNECTION DIAGRAMS

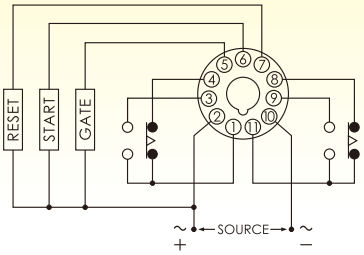
H3CR-A8



H3CR-A8X

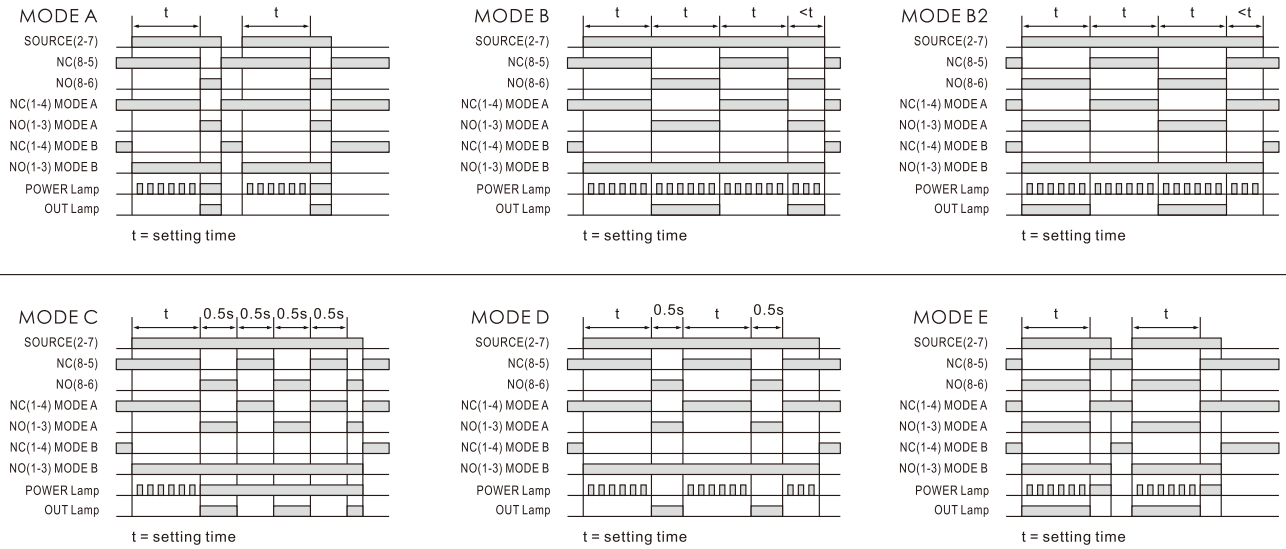


H3CR-A



TIMING CHARTS

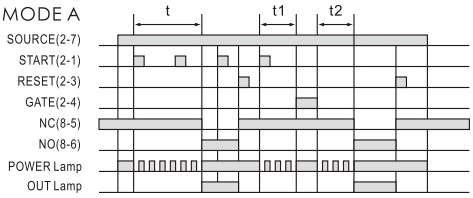
H3CR-A8



TIMING CHARTS

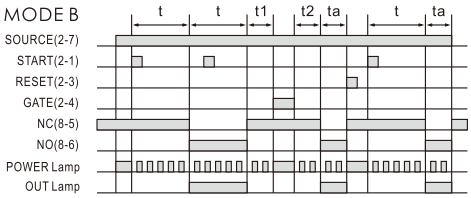
H3CR-A8X

MODE A



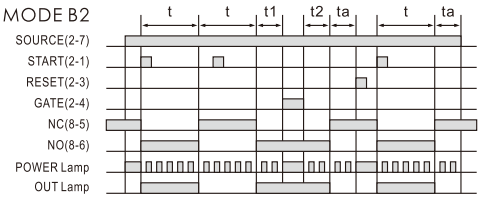
t = setting time = t1 + t2
*Start input is invalid during timing.

MODE B



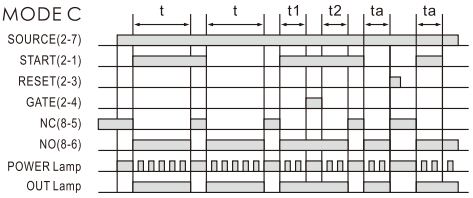
t = setting time = t1 + t2 ; ta < t
*Start input is invalid during timing.

MODE B2



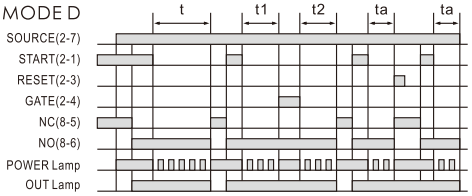
t = setting time = t1 + t2 ; ta < t
*Start input is invalid during timing.

MODE C



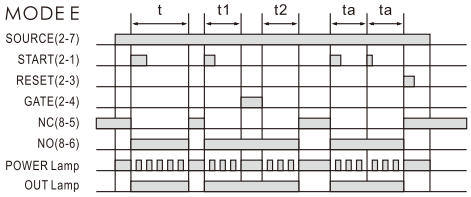
t = setting time = t1 + t2 ; ta < t
*During timing, Hold down or release the trigger will re-timing.

MODE D



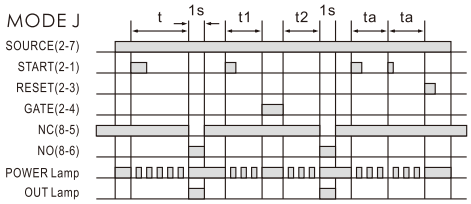
t = setting time = t1 + t2 ; ta < t
*Start input is valid during timing.

MODE E



t = setting time = t1 + t2 ; ta < t
*Start input is valid during timing.

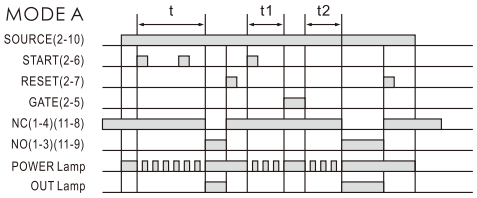
MODE J



t = setting time = t1 + t2 ; ta < t
*Start input is valid during timing.

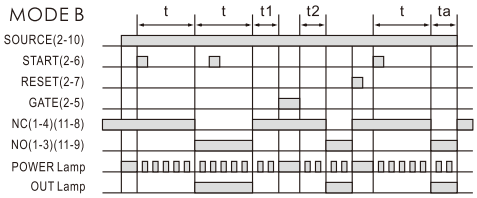
H3CR-A

MODE A



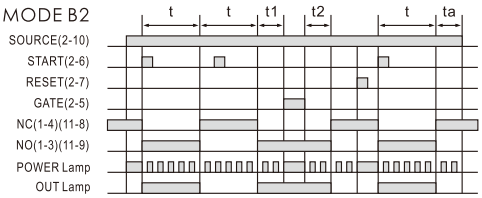
t = setting time = t1 + t2
*Start input is invalid during timing.

MODE B



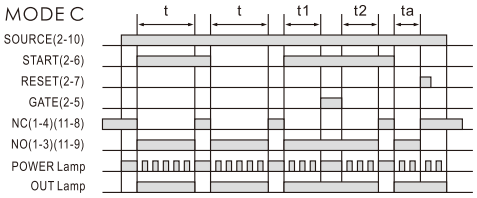
t = setting time = t1 + t2 ; ta < t
*Start input is invalid during timing.

MODE B2



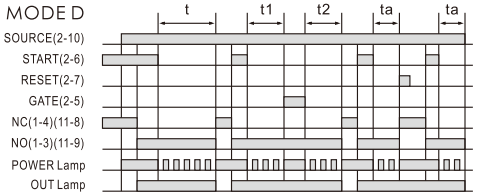
t = setting time = t1 + t2 ; ta < t
*Start input is invalid during timing.

MODE C



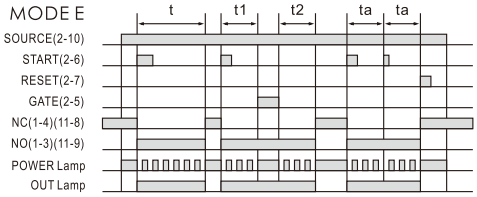
t = setting time = t1 + t2 ; ta < t
*During timing, Hold down or release the trigger will re-timing.

MODE D



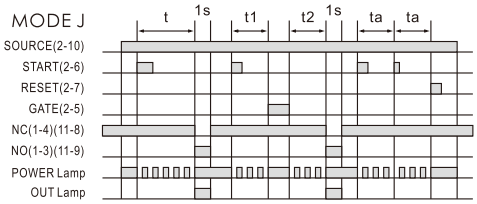
t = setting time = t1 + t2 ; ta < t
*Start input is valid during timing.

MODE E



t = setting time = t1 + t2 ; ta < t
*Start input is valid during timing.

MODE J



t = setting time = t1 + t2 ; ta < t
*Start input is valid during timing.

OPERATION MODE DESCRIPTION

H3CR-A8

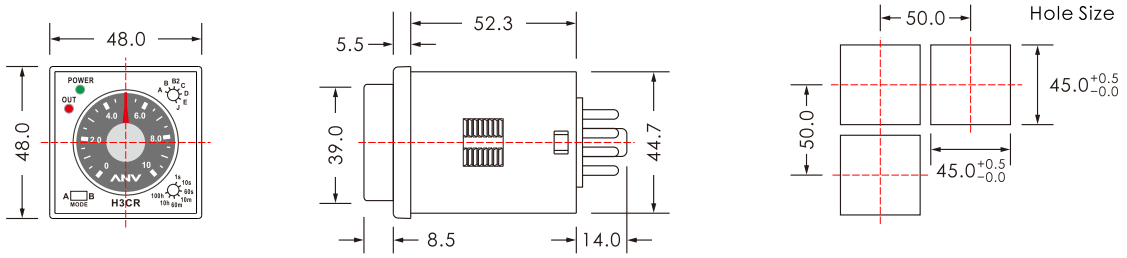
Mode A	ON delay	Power supply timing. Time up then RELAY ON.
Mode B	Flicker, OFF start	Power supply timing. Time up then RELAY ON and re-timing. Time up RELAY OFF. (Recycle)
Mode B2	Flicker, ON start	Power supply RELAY ON then start timing. Time up RELAY OFF and re-timing. (Recycle)
Mode C	ON delay after flicker	Power supply timing. Time up then RELAY ON then flicker every 0.5 seconds.
Mode D	Cycle pulse output	Power supply timing. Time up then RELAY ON then delay 0.5 seconds RELAY OFF. (Recycle)
Mode E	Interval	Power supply RELAY ON then start timing. Time up RELAY OFF.
Mode J	One-shot output	Power supply timing. Time up RELAY ON then delay 1 seconds RELAY OFF.

H3CR-A8X, H3CR-A

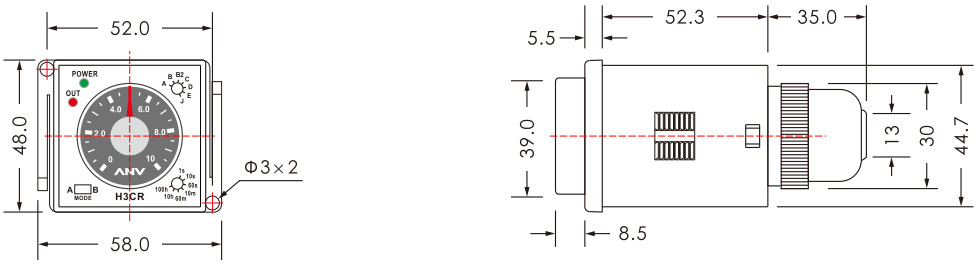
Mode A	Signal ON delay	Start timing after START signal trigger. Time up RELAY ON.
Mode B	Signal ON flicker OFF start	Start timing after START signal trigger. Time up RELAY ON and re-timing then time up RELAY OFF. (Recycle)
Mode B2	Signal ON flicker ON start	RELAY ON after START signal trigger then start timing. Time up RELAY OFF and re-timing. (Recycle)
Mode C	Signal ON/OFF Delay	RELAY ON after Hold the START signal trigger and start timing. Time up RELAY OFF. (hold the START and release START trigger both re-timing)
Mode D	Signal OFF delay	RELAY ON after hold the START trigger but no timing. release START trigger then start timing. Time up RELAY OFF.
Mode E	Signal ON Interval	RELAY ON after START signal trigger then start timing. Time up RELAY OFF.
Mode J	One-shot output	Start timing after START signal trigger. Time up RELAY ON then delay 1seconds RELAY OFF.

DIMENSIONS

Surface Mounting (N Type) : Using P2CF-08 or PF085A,PF085A-E or PF113A,PF113A-E Socket



Flush Mounting (Y Type) : Using Y-50 Adapter+US-08 or P3G-08,P3G-08E,or P3G-11 Socket



(Units : mm)

ANV ELECTRIC CO., LTD.

Kaohsiung Headquarter
No. 151, Jin Shan Road, Kaohsiung, Taiwan
Tel :+886 7 359 5833 Fax :+886 7 359 5822
E-Mail : anv@anv.com.tw

Tainan Office
No. 60, Lin Sen Road Sec. 1, Tainan, Taiwan
Tel:+886 6 216 0988 Fax:+886 6 216 0388
E-Mail : tainan@anv.com.tw

Taichung Office
No. 532, Wen Hsin Road Sec. 1, Taichung, Taiwan
Tel :+886 4 2320 9930 Fax :+886 4 2320 9960
E-Mail : taichung@anv.com.tw

Taipei Office
No. 166, Fu Xing 3rd Street, Taishan Dist.,
New Taipei City, Taiwan
Tel :+886 2 2296 3133 Fax :+886 2 2296 3233
E-Mail : taipei@anv.com.tw

ANV ELECTRIC (HK) LTD
Flat 4, 14/F., Block 4, Wai Wah Centre,
Shatin, N.T., Hong Kong
Tel :+852 2690 2588 Fax :+852 2690 2511
E-Mail : anv@anv.com.hk

ANV ELECTRIC (M) SDN. BHD
25-1, Jalan 1/116B, Kuchai Entrepreneur's Park,
Off Jalan Kuchai Lama, 58200 Kuala Lumpur, Malaysia
Tel :+60 3 7980 3328 Fax :+60 3 7980 3779
E-Mail : anv@anv.com.my

Specifications are subject to change without notice

Printed in Taiwan TRAK03