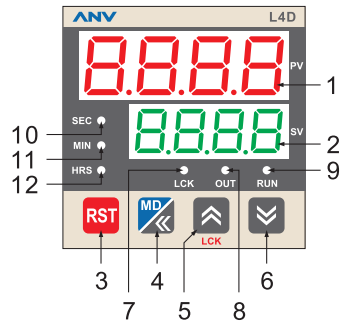


MULTI-FUNCTION DIGITAL TIMER

MANUAL

L4D

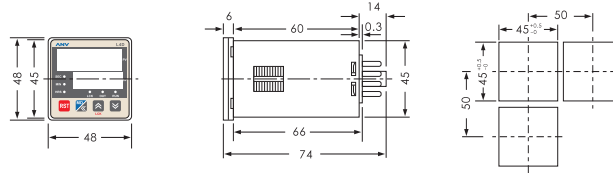
FRONT PART



SYMBOL	NAME	FUNCTION
1	PV	Present Value
2	SV	Set Value
3	RST	Reset Key / Set Key Reset Key : Press this key to restart Set Key : When setup is complete, press this key to save
4	MD	Mode Key / Left Key Enter the program mode & Shift left
5	⏏	Select Key / Increase Key / Lock Key Select Key: Select function Increase Key: Increase value Lock Key: Hold this key more than 3 seconds to lock or unlock
6	⏏	Select Key / Decrease Key Select Key : Select function Decrease Key : Decrease value
7	LCK	Lock Key Lamp Key lock indication
8	OUT	Indicator Operation Time up indication
9	RUN	Timing Indicator Timing state is flicker
10	SEC	SEC Indicator Lamp The time unit is seconds
11	MIN	MIN Indicator Lamp The time unit is minutes
12	HRS	HRS Indicator Lamp The time unit is hours

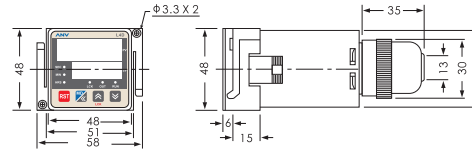
DIMENSIONS

L4D



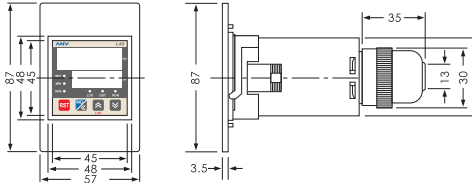
L4D With Y-50

US-08



L4D With Y-57

US-08



SPECIFICATIONS & CHARACTERISTICS

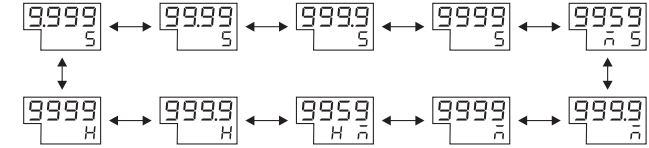
Model		L4D-8	L4D-8X	L4D-8T	L4D-8G	L4D-8P	L4D-11	L4D-11T	L4D-11P
CONTROL OUTPUT		2C or 1A1C	Time limit: 1C 1+4 Gate 1+3 Reset	Time limit: 1C 1+4 Start 1+3 Reset	Time limit: 1C 1+4 Start 1+3 Gate	Time limit: 1C 1+4 Reset 1+3 12VDC	2C or 1A1C 6+5 Gate 6+7 Reset	2C or 1A1C 6+5 Start 6+7 Reset	Time limit: 1C 1+7 Reset 1+6 Start 1+5 Gate 1+4 K/P 1+3 12VDC NPN
DIMENSION (mm)		48H X 48W X 80D							
RATED VOLTAGE		12~60VDC/AC, 100~240VAC 50/60Hz							
OPERATING VOLTAGE		90 ~ 110 % of rated voltage							
CONTACT CAPACITY		NO: 5A 250VAC resistive load, NC:5A 250VAC resistive load							
MOUNTING & SOCKET		Surface: P2CF-08, Flush: Y-50 & US-08 or Y-50 & P3G-08 or Y-50 & US-11							
INDICATOR OPERATING		Time up indication							
RESET METHOD		Power reset , External reset							
RESET TIME		Power reset : 0.3sec, External reset : 0.02sec							
ACCURACY	REPEAT ERROR	Power ON start : ±0.05% ±0.1sec Signal start : ±0.01% ±0.05sec							
	SETTING ERROR								
	VOLTAGE ERROR								
	TEMPERATURE ERROR								
LIFE	MECHANICAL	5 X 10 ⁸ times							
	ELECTRICAL	10 ⁵ times							
CONSUMED POWER		Max. 3VA	Max. 2VA				Max. 3VA	Max. 2VA	
AMBIENT TEMPERATURE		-10℃~+55℃							
AMBIENT HUMIDITY		45~85%RH							
WEIGHT		Approx. 130g	Approx. 130g				Approx. 130g		Approx. 130g

CHANGE OF SETTING VALUE

Setting without pressing any key over 10 seconds will automatically save and return to RUN mode.

TIME RANGE

Press key 3 seconds into the time function mode.

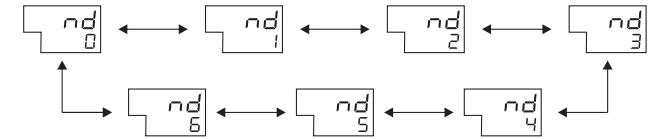


Time range	SV Display	PV Display	Time range	SV Display	PV Display
0.001s~9.999s	5	9999	0.1m~999.9m	~	9999
0.01s~99.99s	5	9999	1m~9999m	~	9999
0.1s~999.9s	5	9999	1m~99h59m	H ~	9959
1s~9999s	5	9999	0.1h~999.9h	H	9999
1s~99m59s	~ 5	9959	1h~9999h	H	9999

Press key save the settings and change to TIMING mode or press key save the settings and return to RUN mode.

TIMING MODE

Press or Cyclic selection. Detailed functional see timing charts.

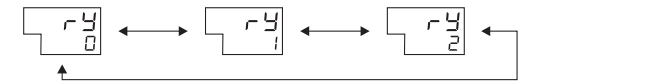


nd/0=Power on timing,Relay output when the PV value equal to SV value.
nd/1=Long trigger timing.
nd/2=Short trigger timing.
nd/3=Long trigger timing,after release trigger button will be reset.
nd/4=Long trigger timing,timing or time up release trigger button will be reset.
nd/5=Release the trigger button start timer.
nd/6=Press or release trigger button both timing.

Press key save the settings and change to RELAY OUTPUT mode or press key save the settings and return to RUN mode.

RELAY OUTPUT MODE

Press or Cyclic selection.



ry/0=Positive action. (NC→NO)
ry/1=Reverse action. (NO→NC)
ry/2=Trigger action. (NC→NO→NC) (at nd/0 mode is invalid.)

Press key save the settings and change to UP/DOWN mode or press key save the settings and return to RUN mode.

UP / DOWN MODE

Press or Cyclic selection.

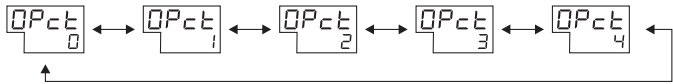


ud/up=Increase timing.
ud/do=Decrease timing.

Press key save the settings and change to OUTPUT CONTROL mode or press key save the settings and return to RUN mode.

OUTPUT CONTROL MODE

Press or Cyclic selection. Detailed functional see timing charts.



- Opct/0=Time up RELAY output. PV value = SV value.
- Opct/1=Time up RELAY output. Wait for reset delay time up then RELAY release, PV value is returned to the initial value.
- Opct/2=Time up RELAY output. Wait for reset delay time up then RELAY release, PV value is returned to the initial value and restart timing. GATE is available.
- Opct/3=Time up RELAY output and PV value is returned to the initial value. Wait for reset delay time up then RELAY release and restart timing. GATE is available.
- Opct/4=Time up RELAY output and restart timing, time up RELAY release and restart timing.

Press to enter RELAY delay time setting.

Press to change RELAY delay time digit.

Press to select digital 0~9.(Time range:0.1S~999.9S)

Press key save the settings and change to MEMORY mode or press key save the settings and return to RUN mode.

Note: Opct/1 is invalid, if use nd/4 mode. Opct/2, Opct/3 is only valid in nd/4 mode.

MEMORY MODE

Press or Cyclic selection.



- c/no=Without power failure memory function.
- c/ye=With power failure memory function.

Press key save the settings and change to CONTACT OUTPUT mode or press key save the settings and return to RUN mode.

CONTACT OUTPUT MODE

Press or Cyclic selection.



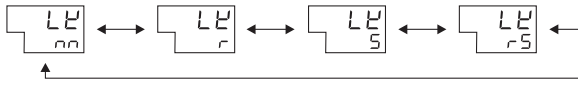
- ryAb/2c=Time relay:2
- ryAb/1c=Time relay:1, Instantaneous : 1

Press key save the settings and change to KEY LOCK mode or press key save the settings and return to RUN mode.

KEY LOCK MODE

Press or Cyclic selection.

The standby state hold down key 3 seconds to lock key or unlock.



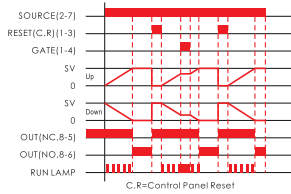
- LK/nn =No lock.
- LK/r =Lock the reset key.
- LK/S =Shift left key.
- LK/rS =Reset key and shift left key.

Press key save the settings and change to TIME RANGE mode or press key save the settings and return to RUN mode.

TIMING CHARTS

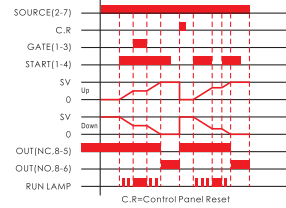
nd/0 + Opct/0

Power on timing,Relay output when the PV value equal to SV value.(Default)



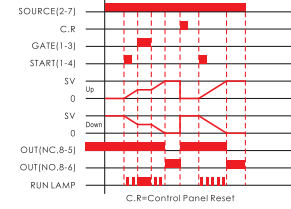
nd/1 + Opct/0

Long trigger timing.



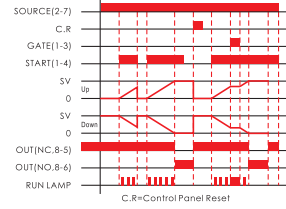
nd/2 + Opct/0

Short trigger timing.



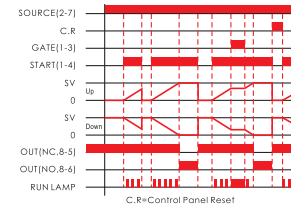
nd/3 + Opct/0

Long trigger timing,after release trigger button will be reset.



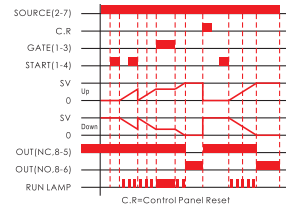
nd/4 + Opct/0

Long trigger timing,timing or time up release trigger button will be reset.



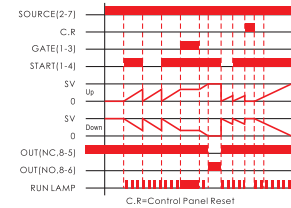
nd/5 + Opct/0

Release the trigger button start timing.



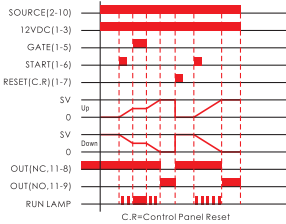
nd/6 + Opct/0

Press or release trigger button both restart timing.



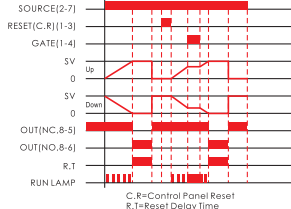
nd/2 + Opct/0(L4D-11)

Short trigger timing.



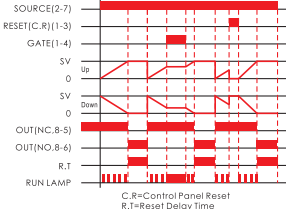
nd/0 + Opct/1

Power on timing,Time up RELAY output. Wait for reset delay time up then RELAY release, PV value is returned to the initial value.



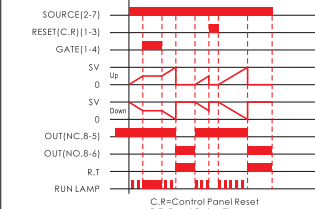
nd/0 + Opct/2

Power on timing,Time up RELAY output. Wait for reset delay time up then RELAY release, PV value is returned to the initial value and restart timing.



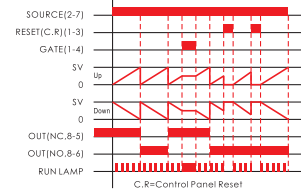
nd/0 + Opct/3

Power on timing,Time up RELAY output and PV value is returned to the initial value. Wait for reset delay time up then RELAY release and restart timing.



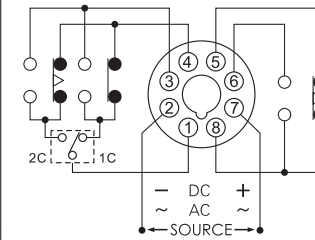
nd/0 + Opct/4

Flicker relay.

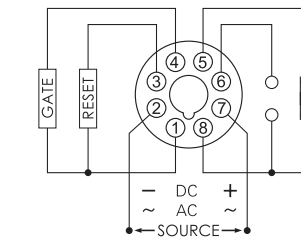


CONNECTION DIAGRAMS

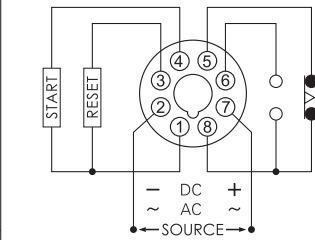
L4D-8



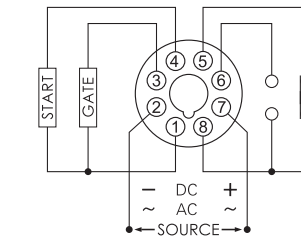
L4D-8X



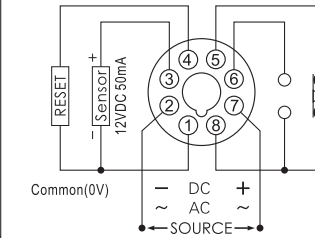
L4D-8T



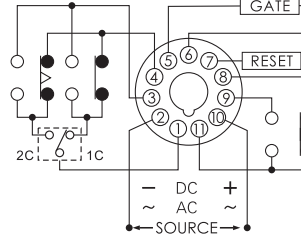
L4D-8G



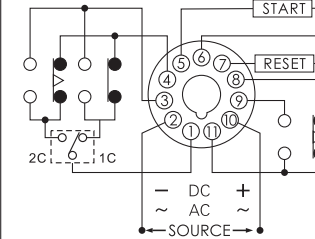
L4D-8P



L4D-11



L4D-11T



L4D-11P

