Analog small timer

INSTRUCTION MANUAL

Thank you for purchasing Hanyoung Nux products. Please read the instruction manual carefully before using this product, and use the product correctly. Also, please keep this instruction manual where you can see it any time.

HANYOUNG NUX

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MD1103KF230118

Safety information

Please read the safety information carefully then use the product correctly.
The alerts declared in the manual are classified into Danger, Warning and Caution according to their importance

MARNING Indicates an imminently nazardous situation which, if not avoided, will result in death or serious injury CAUTION Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor injury or property dam	_		^
	\triangle	CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor injury or property damage
ZIS DANGER Indicates an imminently nazardous situation which, if not avoided, will result in death or serious injury	\triangle	WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
A DANCER Indicates a limit on the boundary of the standard of the death of the death of the death of the standard of the stand	\triangle	DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury

✓!\ DANGER

The input/output terminals are subject to electric shock risk. Never let the input/output terminals come in contact with your body or conductive substances.

♠ WARNING

- Please install an appropriate protective circuit on the outside if malfunction, an incorrect operation or failure of the product may be a cause of leading to a serious accident and plan for preventing accidents.

 After mounting the product onto a panel, please use a socket dedicated to the product when connecting with other units and do not turn on the power until completing wring to prevent electric shock.

 Please turn off the power when mounting/dismounting of the product. This is a cause of electric shock, affunction, or failure.

 If the product is used with methods other than specified by the manufacture, then it may lead to injury or properly damage.

 In order to use this product properly and safely, we recommend periodic maintenance.

 The warranty of this product (including accessories) is 1 year only when it is used for the purpose it was intended under normal condition.

∠!\ CAUTION

- Please do not set "Time" to "0". This can be a cause of malfunction. Also, there could be a time difference in timer operation. Please use it after confirming the time difference.

 Please set or change "Time Range" in the dip switch while the timer is OFF. If the "Time Range" has been changed to other value during the operation, please turn off the timer and turn it back on, please turn off the timer and turn it back on.

 Since this is not explosion-proof structure, please use in a place where there is no direct vibration and a large physical impact to the product.

 Please use in a place where there is no water, oil, chemicals, steam, dust, salt, iron or others

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 Please avoid usig in a place where here excessive amounts of inductive interference or electrostatic and magnetic noise occur.

 Please avoid usig in a place where here here a accumulation occurs due to direct sunlight or radiant heat.

 Please make sure to inspect the product if exposed to water since there is a possibility of electric leakage or aris to fire of horse. If it here is a lot of noise from the power in being supplied there should be a preparation time for the contact output. Please use a delay relay together when it is used as a signal on the outside of interlock circuit or others.

Suffix code

Model	Code				Content	Product configuration	
T38A		□-		Analog small timer 38.4(W) x 42.4(H) x 59.0(D) mm			
Time range		3 Maximum time: 3sec / 3min / 3hour / 30sec / 30m			Maximum time: 1sec / 1min / 1hour / 10sec / 10min / 10hour	• T38A-1N-A	
					Maximum time: 3sec / 3min / 3hour / 30sec / 30min / 30hour		
				Maximum time: 6sec / 6min / 6hour / 60sec / 60min / 60hour	• T38A-3N-A • T38A-6N-A		
Control output			rol output N			No option	
Power supply voltage				А	24 – 240 V a.c. 50/60 Hz or 24 – 240 V d.c. dual usage		

Specification

	Model	T38A				
	Timer type	Analog small timer				
Powe	r supply voltage	24 – 240 V a.c. 50/60 Hz or 24 – 240 V d.c. dual usage				
Allo	wable voltage	±10 % of Power supply voltage				
Pow	er consumption	• Max. 4.1 VA (24 – 240 V a.c. 50/60 Hz) • Max. 2 W (24 – 240 V d.c.)				
Oper	ating time range	0.1 sec ~ 60 hour				
Oper	rating time error	• Setting error: Max. ±5 % ±0.05 • Voltage error: Max. ±0.5 % • Temperature error: Max. ±2 %				
	Return time	Max. 100 ms				
External	connection method	8-pin socket				
	Operation mode	A/B/C/D/E/F (selected by front operating mode selector switch)				
Control output	Contact composition	instantaneous SPDT (1c) + time-limit SPDT (1c) *Automatic change of contact composition according to operation mode				
	Contact capacity	N.O. (250 V a.c. 3A Resistive load) N.C. (250 V a.c. 2A Resistive load)				
	Relay life	Mechanical life: Min 10 million cycles Electrical life: Min. 20,000 cycles (250 V a.c. 2A resistive load)				
Insul	ation resistance	Min. 100 MΩ (500 V d.c. mega, at conductive terminal and non-charged metal which is exposed)				
Diel	ectric strength	2000 V a.c. 60 Hz for 1 minute (conductive terminal and non-charged metal which is exposed)				
No	oise immunity	$\pm 2 \text{kV}$ (between the power terminals, pulse width = 1 us, square wave noise by noise simulator)				
Vibra	ation resistance	10 - 55 Hz (for 1 minute) 0.75mm double amplitude 0.75mm in each X, Y, Z direction for 2 hours				
Sh	ock resistance	300 m/s² (30G) in each X, Y, Z direction for 3 times				
	rating ambient emperature	-10 ∼ 55 °C (without condensation)				
Accessories		• Fixing BRACKET • BRACKET-M (48.0 X 59.0 mm) flush type bracket				
Accessories (separately sold)		BRACKET-S (48.0 X 48.0 mm) bracket for adjusting size (flush type) BRACKET-L (53.5 X 84.4 mm) bracket for adjusting size (flush type)				
Weight (g)		Approx. 74 g (exposure type)				
	Approval	(€				

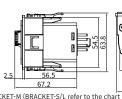
Dimension & Panel cutout

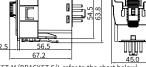


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[Unit:mm

UP

indicator light

POW

indicator light

OUT2

output display

indicator

* Application of BRACKET-M (BRACKET-S/L refer to the chart below ■ Panel cutout

В

■ Bracket						
Type		Fixing				
Product name	BRACKET-S	BRACKET-M	BRACKET-L	BRACKET-SCO		
Size	48.0 x 48.0 mm	48.0 X 59.0 mm	53.5 x 84.4 mm			
Model						
Order	T38A/TF62A	T38A/TF62A	T38A/TF62A	FIXING BRACKET		
code	BRACKET-S	BRACKET-M	BRACKET-L	SCO		

Connection diagram



*OUT1 output operates as instantaneo
output in operation mode 'B/C/E/F'.

Assortment Indication 51.0 45.0 45.5 55.0 63.0 70.5 60.0 45.0 Panel cutout 60.0 60.0 80.0 86.0

I Function and name of each part

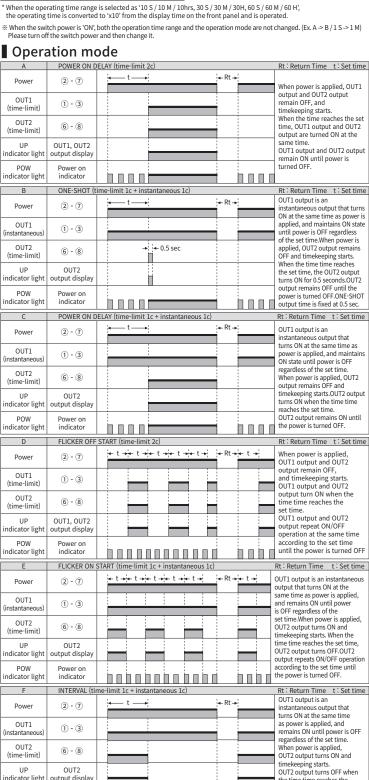
Output indicator Turns on when output is 'ON', turns off when output is 'OFF Volume for setting operation time Set the operation time by adjusting the volume

Power on indicator Turns on when power is applied. flickers until output occurs, and maintains lighting state when output occurs (A / B / C / F)

- It keeps flickering regardless of the output if the output mode is ' D / E '.

Operation time range selection switch (*change after power is off)			f) Operatio	Operation mode Selection Switch (*change after power is off		
Time range		Setting time range	Indic	ation	Output operation mode	
	1 S 1 M	0.1 ~ 1 sec 0.1 ~ 1 min	-	Α	POWER ON DELAY	
T38A-1	1 H	0.1 ~ 1 hour	-	В	ONE-SHOT + instantaneous 1c	
	10 S	1 ~ 10 sec		С	POWER ON DELAY + instantaneous 1c	
	10 M 10 H	1 ~ 10 min 1 ~ 10 hour	T38A	D	FLICKER OFF START	
	3 S	0.3 ~ 3 sec		Е	FLICKER ON START + instantaneous 1c	
	3 M	0.3 ~ 3 min 0.3 ~ 3 hour	_	F	INTERVAL + instantaneous 1c	
T38A-3	30 S	3 ~ 30 sec				
	30 M	3 ~ 30 min				
	30 H	3 ~ 30 hour				
T38A-6	6 S	0.6 ~ 6 sec				
	6 M	0.6 ~ 6 min				
	6 H	0.6 ~ 6 hour				
	60 S	6 ~ 60 sec				
	60 M	6 ~ 60 min				
	60 H	6 ~ 60 hour				

- Please turn off the switch power and then change it.



the time time reaches the

OUT2 output remains OFF until

set time.

the power is turned OFF.