

T48A

Analog timer

- 48.0(W) x 48.0(H) x 59.0(D) mm miniaturized size
- Easy time setting by using the dial
- Multi-time Range : 20 Multiple time Range
- Various time setting range : 0.1sec~ 48 hour
- Selecting units of time (sec, min, hour)
- 24 - 240 V a.c. 50/60 Hz, 24 - 240 V d.c. dual usage



Specification

Model		T48A
Timer type		Analog timer
Power voltage		24 - 240 V a.c. 50/60 Hz or 24 - 240 V d.c. dual usage
Allowable voltage		±10 % of Power supply voltage
Power consumption		■Max. 3.7 VA (24 - 240 V a.c. 50/60 Hz) ■Max. 1.5 W (24 - 240 V d.c.)
Operating time range		0.1 sec ~ 48 hour
Operating time error		■Setting error: Max. ±5 % ±0.05 ■Repetition error: Max. ±0.3 % (* percentage of full scale) ■Voltage error: Max. ±0.5 % ■Temperature error: Max. ±2 %
Return time		Max. 100 ms
External connection method		8-pin socket
Control output	Operation mode	POWER ON DELAY (fixing)
	Contact composition	■T48A-B : instantaneous SPDT (1c) + time-limit SPDT (1c) ■T48A-C : time-limit DPDT (2c)
	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)
Insulation resistance		Min. 100 MΩ (500 V d.c. mega, at conductive terminal and non-charged metal which is exposed)
Dielectric strength		2000 V a.c. 60 Hz for 1 minute (at conductive terminal and non-charged metal which is exposed)
Noise immunity		±2kV (between the power terminals, pulse width = 1 us, square wave noise by noise simulator)
Vibration resistance		10 - 55 Hz (for 1 minute) 0.75mm double amplitude in each X, Y, Z direction for 2 hours
Shock resistance		300 m/s ² (30G) in each X, Y, Z direction for 3 times
Operating ambient temperature		-10 ~ 55 °C (without condensation)
Accessories		Fixing Bracket
Weight		Approx. 82 g
Approval		

Suffix code

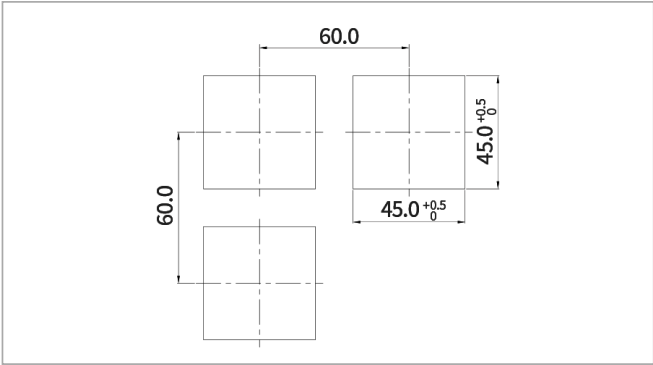
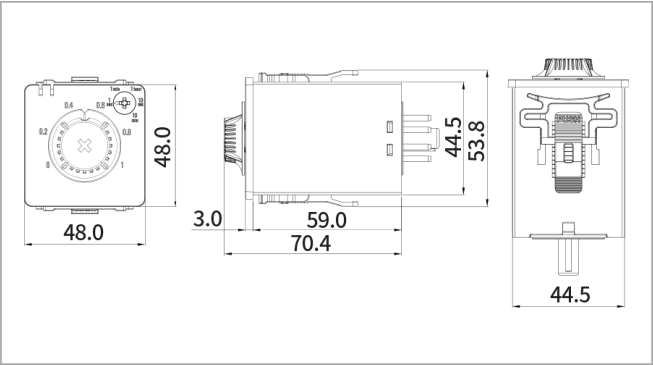
Model	Code				Content	Product configuration
T48A	<input type="checkbox"/> -	<input type="checkbox"/>	<input type="checkbox"/> -	<input type="checkbox"/>	Analog timer 48.0(W) x 48.0(H) x 59.0(D)mm	■T48A-1B-A ■T48A-3B-A ■T48A-6B-A ■T48A-12B-A ■T48A-1C-A ■T48A-3C-A ■T48A-6C-A ■T48A-12C-A
Time range		1			Maximum time : 1sec / 1min / 1hour / 10sec / 10min	
		3			Maximum time : 3sec / 3min / 3hour / 30sec / 30min	
		6			Maximum time : 6sec / 6min / 6hour / 60sec / 60min	
		12			Maximum time : 12sec / 12min / 12hour / 24hour / 48hour	
Control output		B			instantaneous SPDT (1c) + time-limit SPDT (1c)	
		C			time-limit DPDT (2c)	
Power supply voltage			A		24 - 240 V a.c. 50/60 Hz or 24 - 240 V d.c. dual usage	

Dimension & Panel cutout

[Unit : mm]

Dimension

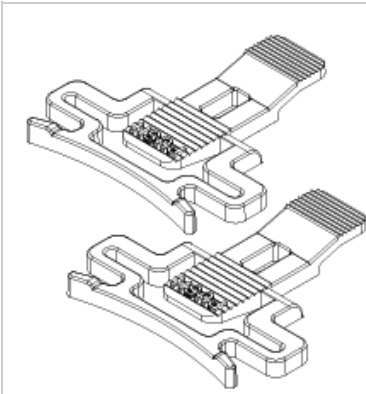
Panel cutout



Bracket

[Unit : mm]

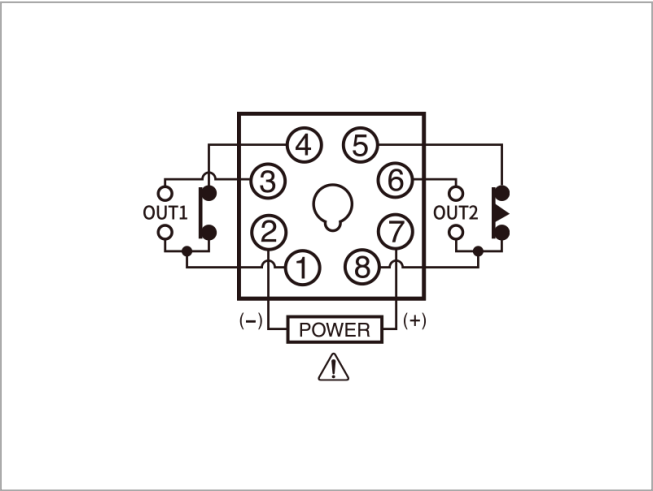
Fixed Bracket



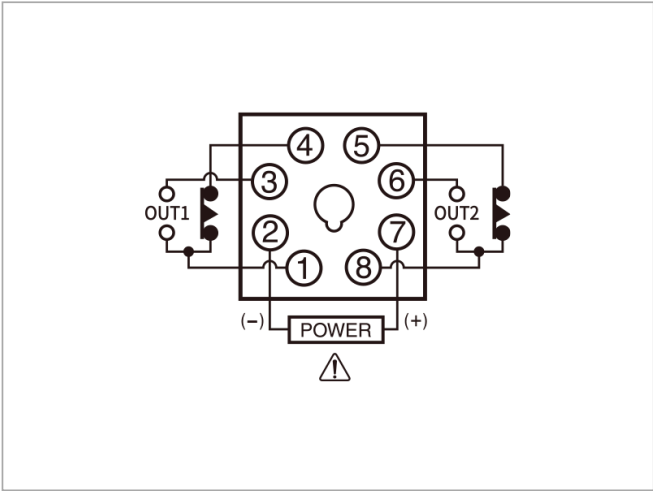
Product name	BRACKET-SCO
Type	Fixing
Size	-
Order code	FIXING BRACKET SCO
Compatible Products	T38A / T48A / TF62A

Connection diagram

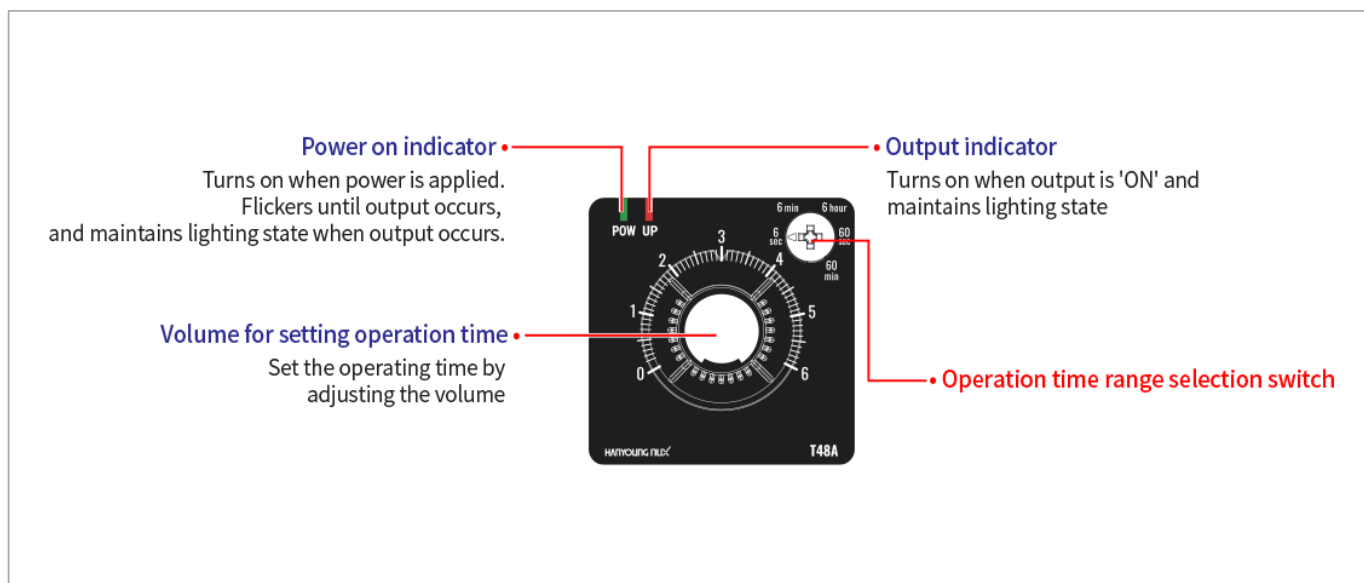
T48A-B (instantaneous 1c + time-limit 1c)



T48A-C (time-limit 2c)



Function and name of each part



▪ Operation time range selection switch (※change after power is off)

Time range		Setting time range
T48A-1	1 sec	0.1 ~ 1 sec
	1 min	0.1 ~ 1 min
	1 hour	0.1 ~ 1 hour
	10 sec	1 ~ 10 sec
	10 min	1 ~ 10 min
T48A-3	3 sec	0.3 ~ 3 sec
	3 min	0.3 ~ 3 min
	3 hour	0.3 ~ 3 hour
	30 sec	3 ~ 30 sec
	30 min	3 ~ 30 min
T48A-6	6 sec	0.6 ~ 6 sec
	6 min	0.6 ~ 6 min
	6 hour	0.6 ~ 6 hour
	60 sec	6 ~ 60 sec
	60 min	6 ~ 60 min
T48A-12	12 sec	1.2 ~ 12 sec
	12 min	1.2 ~ 12 min
	12 hour	1.2 ~ 12 hour
	24 hour	2.4 ~ 24 hour
	48 hour	4.8 ~ 48 hour

* When the operating time range is selected as '10sec / 10min, 30sec / 30min, 60sec / 60min', the operating time is converted to 'x10' from the display time on the front panel and is operated.

* When the operating time range is selected as '24hour', the operating time is converted to 'x2' from the display time on the front panel and operated.

* The time unit of the operating time range '24hour / 48hour' is fixed to 'hour'.

* When '48hour' is selected as the operating time range, the operating time is converted into 'x4' from the display time on the front panel and operates.

※ When the switch power is 'ON', the operation time range is not changed. (Ex. 1 sec -> 1 min) Please turn off the switch power and then change it.

