

Multi-range Analog Timers

■ Selection Guide For Type Number

1	2	3	4	5	6	7	8
T48	A	1	—	A	01M	A220	— 08 / 2

1. Dimensions:

T29 29(W)x36(H)x82(L)



T36=36(W)x36(H)x88(L)



T40 =40(W)x49(H)x88(L)



T48 =48(W)x48(H)x94(L)



T49 =49(W)x61(H)x70(L)



T49 =49(W)x61(H)x70(L)



T58 =58(W)x88(H)x68(L)



T58 =58(W)x88(H)x68(L)



Multi-range Analog Timers

2. Display status :

A= Analog

B=Digital signals

3. Mounting & Socket :

1=Surface(-N)

2=Flush(-Y)

4. Output Mode:

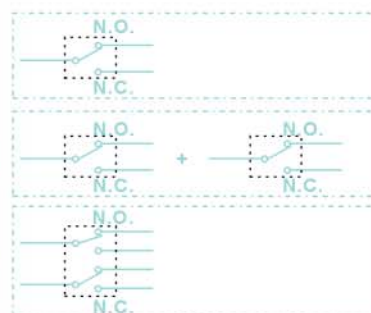
A = Delay SPDT



B = Delay SPDT+ Instantaneous SPDT



C = Delay DPDT



5. Time Range

01S = 0.1S - 1S

03S = 0.1S - 3S

06S = 0.1S - 6S

10S = 0.2S -10S

30S = 0.5S - 30S

60S = 1S - 60S

03M = 3S - 3M

06M = 6S - 6M

10M = 10S -10M

30M = 3M - 30M

01H = 0.1H - 1H

03H = 0.3H - 3H

10H = 1H - 10H

30H = 3H - 30H

6. Power Supply:

A380=AC 380V

AD24=AC 24V or DC 24

D012=DC 12V

A220=AC 220V

A110=AC 110V

7. Terminal :

08 = 8 Pins

11 = 11 Pins

8. Special specification:

2=Two-range Analog Timers

T48A Multi-range Analog Timers



Features:

- Multiple Power Supply - 220VAC, 110VAC, 24VAC/DC, 12VDC
- Multiple Time Range 0.1s to 30h
- Power ON Delay
- 0 Setting Instantaneous Output Operation
- Have Output Indicator LED and Power Indicator LED
- CE Mark Approval

Product Types for T48A

Type	Time Range	Operating Voltage	Part Number		
			Delay SPDT	Delay SPDT+ Instantaneous SPDT	Delay DPDT
T48A	0.1S to 10M	200 to 240V AC	T48A1-A10MA220-08	T48A1-B10MA220-08	T48A1-C10MA220-08
		100 to 110V AC	T48A1-A10MA110-08	T48A1-B10MA110-08	T48A1-C10MA110-08
		24V AC/DC	T48A1-A10MAD24-08	T48A1-B10MAD24-08	T48A1-C10MAD24-08
	0.3S to 30M	200 to 240V AC	T48A1-A30MA220-08	T48A1-B30MA220-08	T48A1-C30MA220-08
		100 to 110V AC	T48A1-A30MA110-08	T48A1-B30MA110-08	T48A1-C30MA110-08
		24V AC/DC	T48A1-A30MAD24-08	T48A1-B30MAD24-08	T48A1-C30MAD24-08
	0.1M to 10H	200 to 240V AC	T48A1-A10HA220-08	T48A1-B10HA220-08	T48A1-C10HA220-08
		100 to 110V AC	T48A1-A10HA110-08	T48A1-B10HA110-08	T48A1-C10HA110-08
		24V AC/DC	T48A1-A10HAD24-08	T48A1-B10HAD24-08	T48A1-C10HAD24-08
	0.3M to 30H	200 to 240V AC	T48A1-A30HA220-08	T48A1-B30HA220-08	T48A1-C30HA220-08
		100 to 110V AC	T48A1-A30HA110-08	T48A1-B30HA110-08	T48A1-C30HA110-08
		24V AC/DC	T48A1-A30HAD24-08	T48A1-B30HAD24-08	T48A1-C30HAD24-08

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Contact Data

Item \ Mode	1 Form C (SPDT)	2 Form C (DPDT)
Max. Switch Voltage	AC 240V, DC110V	AC 240V, DC110V
Max. Switch Current	10A	5A
Max. Switch Power	AC 1200VA, DC 300W	AC 1200VA, DC 150W
Contact Ratings	10A, 120VAC, Resistive	5A, 240VAC, Resistive
	10A, 28VDC, Resistive	5A, 30VDC, Resistive
	1/4 HP , 120VAC	1/8 HP , 250VAC
	3A, 120AC, Inductive	1.5A, 240AC, Inductive
	(Cosφ=0.4)	(Cosφ=0.4)
	3A, 28DC, Inductive	1.5A, 24DC, Inductive
	(L/R=7 msec)	(L/R=7 msec)
Contact Resistance	100 Milliohms(1A, 6VDC)	100 Milliohms(1A, 6VDC)
Contact Material	AG Alloy	AG Alloy
Mechanical Life	10 Million Operations	10 Million Operations
Electrical Life	100,000 Operations	100,000 Operations

Specifications

Item \ Mode	T48A	
Time Range	0.1S ~ 30H, 4 Time Ranges	
Operating Voltage	220VAC, 110VAC, 24VAC/DC	
Allowable Operating Voltage Range	AC: 85 to 110%, DC: 90 to 110%	
Rated Frequency	50Hz/60Hz For AC Operating Type	
Ripple	<10% For DC Operating Type	
Operating Mode	Power ON Delay 0 Setting Instantaneous Output Operation	
Time - Accuracy	Setting Error	± 10% (Max. Setting Time Value)
	Voltage Error	± 1% (At The Operating Changes Between 85 to 110%)
	Temperature Error	± 3% (At 20°C Ambient Temp. At The Range Of -10 To +50°C)
	Operating Time Error	± 0.3%
Operating Temperature	-10 To +55C	
Storage Temperature	-30 To +80°C	
Operating Humidity	Max. 85%RH	
Insulation Resistance	Min. 100MR (At 500V DC)	
Breakdown Voltage	2000Vrms For 1 Min. Between Live And Dead Metal Parts	
	2000Vrms For 1 Min. Between Input And Output	
	2000Vrms For 1 Min. Between Contacts Of Different Poles	
	1000Vrms For 1 Min. Between Contacts Of Same Poles	
Vibration Resistance	Functional	10 To 55Hz: 1 Cycle/Min Double Amplitude Of 0.5mm (10Min On 3 Axes)
	Destructive	10 To 55Hz: 1 Cycle/Min Double Amplitude Of 0.75mm (1H On 3 Axes)
Shock Resistance	Functional	Min. 294m/s ² (4 times On 3 Axes)
	Destructive	Min. 980m/s ² (5 times On 3 Axes)
Power Consumption	220V AC	Approx. 7VA
	110V AC	Approx. 3.5VA
	24VAC/DC	Approx. 1.5VA
	12VDC	Approx. 0.6W
Weight	Approx. 95g	

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Operation Mode

Txxxx-A

Item	Terminal	Operating
Power	2 - 7 (Power)	Set Time
Delay Contact	5 - 8 (N.C.)	
	6 - 8 (N.O.)	
LED Indicator	Power	
	Output	

Txxxx-C

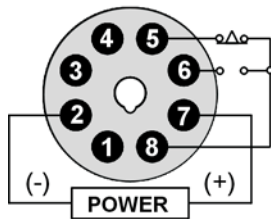
Item	Terminal	Operating
Power	2 - 7 (Power)	Set Time
Delay Contact	5-8,1-4 (N.C.)	
	6-8,3-1 (N.O.)	
LED Indicator	Power	
	Output	

Txxxx-B

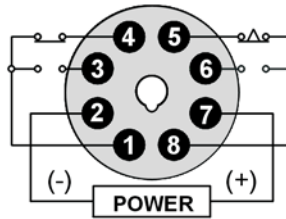
Item	Terminal	Operating
Power	2 - 7 (Power)	Set Time
Delay Contact	5 - 8 (N.C.)	
	6 - 8 (N.O.)	
Indicator Contact	4 - 1 (N.C.)	
	3 - 1 (N.O.)	
LED Indicator	Power	
	Output	

Terminal Wiring Diagrams

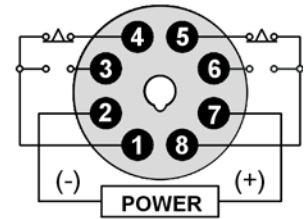
Txxxx-A



Txxxx-B



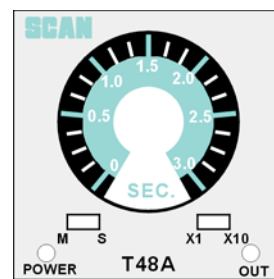
Txxxx-C



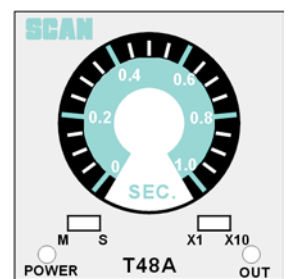
Symbols: —△— Timer Delay N.C. Contact; —○— Timer Delay N.O. Contact; —□— Timer Instantaneous N.C. Contact;

Time Range

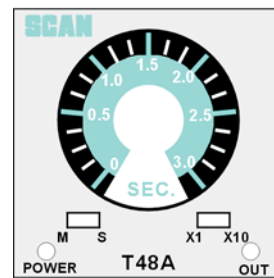
Code	Scale	Time Range
10M	X1S	0.1 sec to 1 sec
	X10S	1 sec to 10 sec
	X1M	0.1 min to 1 min
	X10M	1 min to 10 min
30M	X1S	0.3 sec to 3 sec
	X10S	3 sec to 30 sec
	X1M	0.3 min to 3 min
	X10M	3 min to 30 min
10H	X1M	0.1 min to 1 min
	X10M	1 min to 10 min
	X1H	0.1 hour to 1 hour
	X10H	1 hour to 10 hour
30H	X1M	0.3 min to 3 min
	X10M	3 min to 30 min
	X1H	0.3 hour to 3 hour
	X10H	3 hour to 30 hour



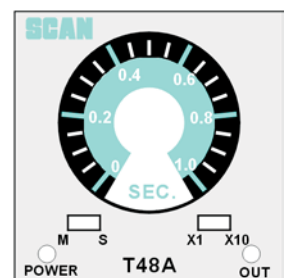
30H



10H



30M

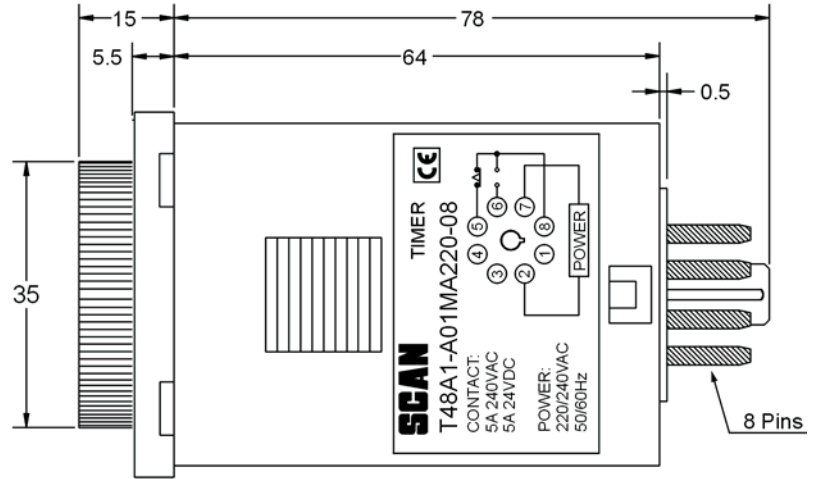
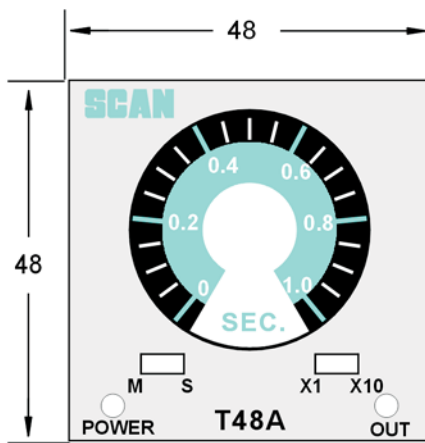


10M

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Dimensions(mm)

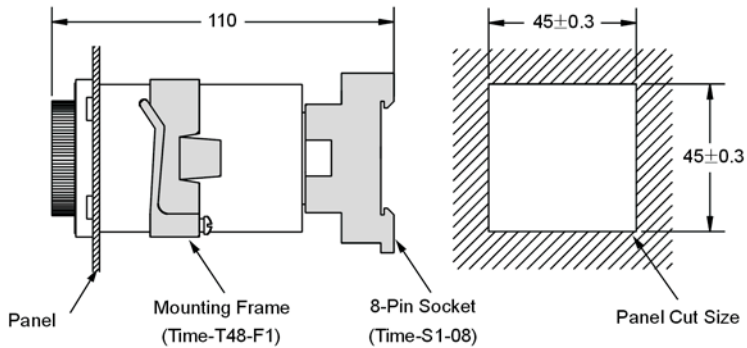
T48A (scale: 1:1)



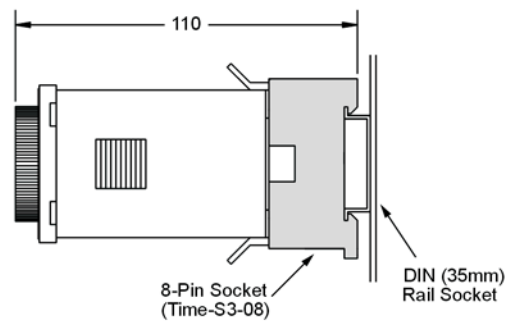
Mount

T48A

1. Panel Mount



2. Surface Mount



3. Mount

