Analog timer

нлпуоцпа пих

TF62N/TF62D INSTRUCTION MANUAL

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Safety information

Alerts declared in the manual are classified to Danger, Warning and Caution by their criticality

⚠ DANGER	DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury
⚠ WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
⚠ CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury

⚠ Danger

Do not touch or connect any undesirable conductive part to input/output terminal since there is a possibility of electric shock,

↑ 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 wiring to prevent electric shock,
- Please turn off the power when mounting/dismounting of the product. This is a cause of electric shock, malfunction, or failure.
- If the product is used with methods other than specified by the manufacturer, then it may lead to injury or property 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 "o". 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.
- Since this is not explosion-proof structure, please use in a place where corrosive gas (such as harmful gas, ammonia, etc.), combustible or explosive gas does not occur.
- · 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
- · Please avoid using in a place where excessive amounts of inductive interference or electrostatic and magnetic noise occur.
- · Please avoid using in a place where heat accumulation occurs due to direct sunlight or radiant heat.
- Please use in a place where the elevation is below 2,000 m.
- Please make sure to inspect the product if exposed to water since there is a possibility of electric leakage or a risk of fire.
- If there is a lot of noise from the power line, installing an insulated transformer or a noise filter is recommended.
- When the power is 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,

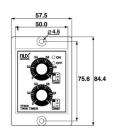
Suffix code

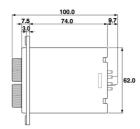
Model	Code				Description			
					Analog timer			
Dimension	TF62N		l I	1	Twin Timer 57.5(W) × 84.4(H) mm			
	TF62D	l I	l I		Dual Timer 57.5(W) × 84.4(H) mm			
Mounting P		l I		Panel type				
structure		Е			Exposure type			
01					1 sec / 1 min / 1 hour			
	03				3 sec / 3 min / 3 hour			
Time range			06		6 sec / 6 min / 6 hour			
(set with di	(set with dip witch)				10 sec / 10 min / 10 hour			
	30				30 sec / 30 min / 30 hour			
			60	l	60 sec / 60 min / 60 hour			
Control output D				D	Time - limit 1c (For TF62N)			
				F	Time - limit 2c (For TF62D)			

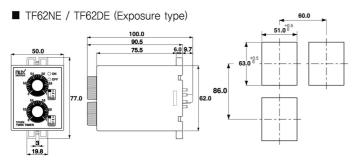
Appearance and Panel cutout-

[Unit: mm]

■ TF62NP / TF62DP (Panel type)





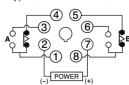


Connection diagram

■ D type (Time - limit 1c)



■ F type (Time - limit 2c)



Specification

	Model	TECON (Tin Times)	TECOD (Duel Times)				
1110001		TF62N (Twin Timer) TF62D (Dual Timer)					
Power supply voltage		24 - 240 V a.c 50 - 60 Hz, 24 - 240 V d.c					
Allowa	able Voltage	Power supply voltage ± 10%					
Power	consumption	4.5 VA max (240 V a.c 60 Hz), approx. 1.5 W max (24 V d.c)					
Power	r reset time	0.1 s max					
Tin	ne range	*Refer to	suffix code				
Time	Repeat error	±0.3 % max (perce	entage of full scale)				
difference	Setting error	±5 % max (perce	ntage of full scale)				
	Output mode	FLICKER (ON Start)	DUAL (ON-A Start)				
Control	Contact composition	D type (Time - limit 1c)	F type (Time - limit 2c)				
output	Contact capacity	250 V a.c 3 A resistive load					
Rela	ay life span	Mechanical: 10 million times min / Electrical: 100 thousand times min					
Diele	ctric strength	2000 V a.c 60 Hz for 1 min (Between two different current carrying parts)					
Nois	se immunity	± 2 kV (between power terminal, pulse width $\pm 1\mu s$, square wave noise by noise simulator)					
Insulat	ion resistance	100 MΩ min (500 V d.c)					
Vibration r	esistance (durability)	10 - 55 Hz (for 1 min), amplitude 0.5 mm, for 3 direction for 2 hr					
Shock res	istance (durability)	300 % for each 3 direction for 3 times					
Operating	ambient temperature	-10 ~ 50 ℃ (without condensation)					
Operating	ambient humidity	30 ∼ 85 % R.H.					
Storag	e temperature	-20 ~ 65 ℃					
Ce	ertification	C€	-				

Part name and function-

■ TF62N		Function	Contents			
	1	Flicker-ON output indicating LED	In case of Flicker-ON, LED is ON at the same time when operating time-limit output.			
	2	Flicker-OFF output indicating LED	In case of Flicker-ON, LED is ON at the same time when stopping time-limit output.			
ON 1	3	Flicker-ON time display	It is used to set operating time of time-limit output in the Flicker-ON mode. Setup time could be changed during operation of timer.			
	4	Flicker-ON time unit setup switch	It is consisted of Hour (h), Minute (m), Second (s). You can set and use ON time unit what you need, (when Power is OFF)			
TYEST TWIN TIMER	(5)	Flicker-OFF time display	It is used to set stopping time of time-limit output in the Flicker-ON mode. Setup time could be changed during operation of timer.			
	6	Flicker-OFF time unit setup switch	It is consisted of Hour(h), Minute(m), Second(s), User can set his own Flicker-OFF time unit (Available to change it when Power is OFF)			

■ TF62D		Function	Contents		
	1	Dual-B ON output indicating LED	In case of Dual function, LED is ON at the same time when operating B output,		
	2	Dual-A ON output indicating LED	In case of Dual function, LED is ON at the same time when operating A output.		
nux	3	Dual A/B OFF output indicating LED	In case of Dual function, LED is ON at the same time when stopping A output or B output.		
4 2 2	4	Setup time dispaly of Dual A/B ON	It is used together with knob to set ON operation time setup of A output and B output, Setup time could be changed during operation of timer.		
G The	(5)	Time unit setup switch of Dual A/B ON	It is consisted of Hour(h), Minute(m), Second(s), It is used to set ON time unit of A output and B output (Available to change it when Power is OFF)		
OUAL TIMER	6	Setup time dispaly of Dual A/B OFF	It is used to set OFF operation time setup of A output and B output, Setup time could be changed during operation of timer.		
	7	Time unit setup switch of Dual A/B OFF	It is consisted of Hour(h), Minute(m), Second(s). It is used to set OFF time unit of A output and B output, (Available to change it when Power is OFF)		

Output operation

■ D type (Time - limit 1c) - Individual setting of ON / OFF time

	Power supply		_	ON setting time	OFF setting time	ON setting time	OFF setting tim
	rower supply	2-7			1		
	Time-limit (NC)	5-8					
TF62N ON START	Time-limit (NO)	6-8			-		
	OFF LED	Operating signal					
	ON LED	Operating signal					

■ F type (Time - limit 2c) - Same ON setup time will be applied to the output A and B

			ON-A setting time	OFF setting time	ON-B setting time	OFF setting time	ON-A setting time	OFF setting time	ON-B setting time	OFF setting tir
	Power supply	2 - 7			,		,	,	,	•
	Time-limit-A NC	① - ④								
	Time-limit-A NO	1)-3								
TF62D	Time-limit-B NC	8-5								
ON-A START	Time-limit-B NO	8-6								
	A LED	Operating signal								
	B LED	Operating signal								
	OFF LED	Operating signal								