

NON POWER FAILURE 24 HOURS TIME SWITCH

TB-35N



FEATURES

1. Back up battery for 100 hours when power failure
2. Direct Reading Clock Type with Minute Adjust Knob to Set Time Precisely to the Minute
3. Handy ON/AUTO/OFF select switch
4. Improved load capacity
5. Attractive design
6. 15-Minute-Interval, 24-Hour Dial with Built-in (Embedded) Time Set Pins

SPECIFICATIONS

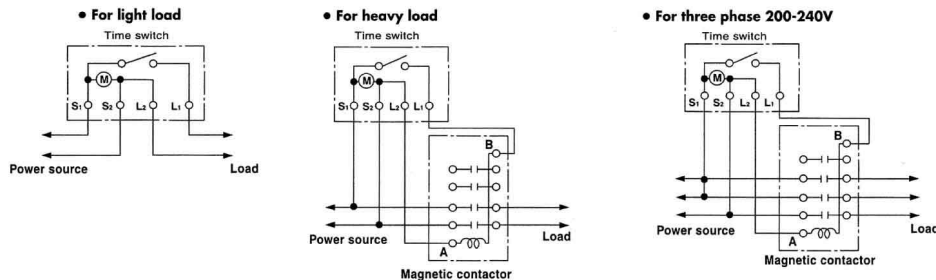
Item	Technical Data	Item	Technical Data
Model NO.	TB-35N	Movement type	AC-type
Rated Voltage	100-240V	Voltage Tolerance	85-264V
Frequency	50/60Hz Common Use	Movement	Quartz
Power Consumption	100V AC 1W, 220V AC 2W	Back up Power	100 Hours
Ambient Temperature	-10°C~+50°C	Resistive Load	250V AC 15A
Lamp Load	10A	Inductive Load	12A(cosφ =0.7 or more)
Motor Load	110V AC 750W, 220V AC 1500W	Minimum Setting Unit	15 minute units
Minimum Setting Interval	15 minute	NO. of ON-OFF Operations	96 operations
Net Weight	250g		

CAUTIONS

1. For the first time, please charge battery first for 10 minutes before use.
2. To set the correct time, turn the dial in the direction of the arrow (clockwise) and set the present time
3. Please observe the rated voltage and voltage tolerance of the time switches for adequate use.
4. If the load capacity exceeds the rating, an electromagnetic switch is required.
5. Do not use the time switch where:
 - . the ambient temperature goes below -10°C or above +50°C
 - . there is much dust
 - . there is much moisture
 - . outdoors or where it will be exposed to rain or water
 - . there is much vibration

WIRING CONNECTION DIAGRAM

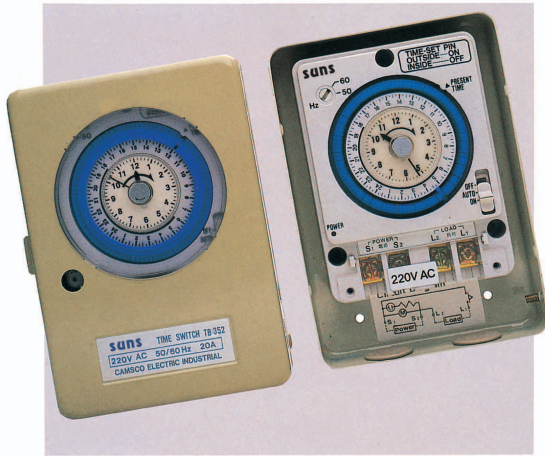
When the time switch is used for loads exceeding the rated capacity, it is imperative that the time switch be used in combination with one or more magnetic contactors according to each load.



When the time switch is used with a heater, it is imperative that the load circuit be protected by a thermo-switch.

24 HOURS TIME SWITCH

Model: TB-35



FEATURES

1. 15-Minute-Interval, 24-Hour Dial with Built-in (Embedded) time Set Pins
2. Direct reading clock type with minute adjust knob to set time precisely to the minute
3. Handy ON/AUTO/OFF select switch
4. Improved load capacity
5. Attractive design
6. Power supply indicator lamp

SPECIFICATIONS

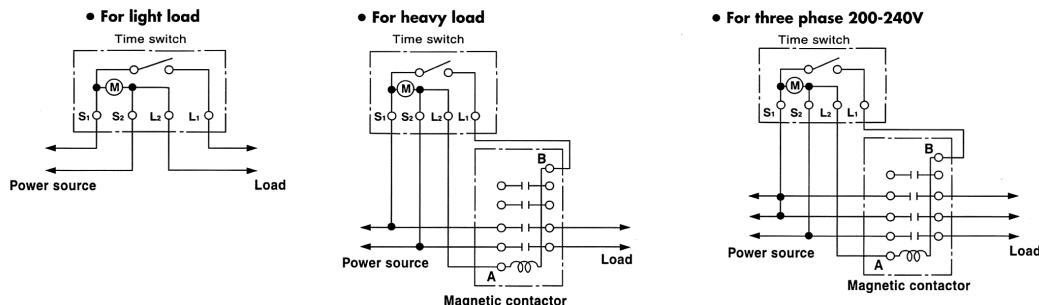
Item	Technical Data	Item	Technical Data
Model No.	TB-35	Movement type	AC-type
Rated Voltage	110V, 220V	Voltage Tolerance	85-125V;170-240V;220-260V
Frequency	50/60Hz (selectable)	Switch Construction	SPST
Power Consumption	110AC 1W , 220V AC 2W	Ambient Temperature	-10~+50°C
Lamp Load	10A	Resistive Load	250AC 15A
Motor Load	110V AC 750W, 220V AC 1500W	Inductive Load	12A(cosφ>=0.7)
Setting Interval (min)	15 minute	Setting Unit (min)	15 minute units
Net Weight	480g	NO. of ON-OFF Operations	96 operations

CAUTIONS

1. To set the correct time, turn the dial in the direction of the arrow (clockwise) and set the present time
2. Please observe the rated voltage and voltage tolerance of the time switches for adequate use.
3. The time switch must be grounded when used in following conditions: input power supply is 220V AC or more; high humidity is expected in the place.
4. If the load capacity exceeds the rating, an electromagnetic switch is required.
5. Do not use the time switch where:
 - . the ambient temperature goes below -10°C or above +50°C
 - . there is much dust or moisture
 - . outdoors or where it will be exposed to rain or water
 - . there is much vibration

WIRING CONNECTION DIAGRAM

When the time switch is used for loads exceeding the rated capacity, it is imperative that the time switch be used in combination with one or more magnetic contractors according to each load.



When the time switch is used with a heater ,it is imperative that the load circuit be protected by a thermo-switch.

NON POWER FAILURE 24 HOURS TIME SWITCH



TB-366

FEATURES

1. Back up battery for 150 hours when power failure
2. Direct Reading Clock Type with Minute Adjust Knob to Set Time Precisely to the Minute
3. 30-Minute-Interval, 24-Hour Dial with Built-in (Embedded) Time Set Pins

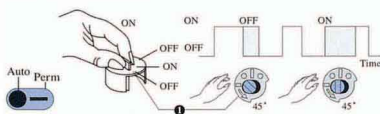
CAUTIONS

1. For the first time, please charge battery first for 10 minutes before use.
2. To set the correct time, turn the dial in the direction of the arrow (clockwise) and set the present time
3. Please observe the rated voltage and voltage tolerance of the time switches for adequate use.
4. If the load capacity exceeds the rating, an electromagnetic switch is required.
5. Do not use the time switch where:
 - . the ambient temperature goes below -10°C or above +50°C
 - . there is much dust
 - . there is much moisture
 - . outdoors or where it will be exposed to rain or water
 - . there is much vibration

SPECIFICATIONS

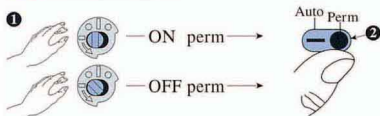
Item	Technical Data	Item	Technical Data
Model NO.	TB-366	Movement type	AC-type
Rated Voltage	110V,220V	Contact Configuration	1A1B 1C
Frequency	50/60Hz Common Use	Movement	Quartz
Power Consumption	100V AC 1W, 220V AC 2W	Back up Power	150 Hours
Ambient Temperature	-10°C~+50°C	Resistive Load	250V AC 16A
Lamp Load	10A	Inductive Load	12A(cosφ =0.7 or more)
Motor Load	110V AC 750W, 220V AC 1500W	Minimum Setting Unit	30 minute units
Minimum Setting Interval	30 minute	NO. of ON-OFF Operations	48 operations
Net Weight	200g		

MANUAL



Manual Control ON/OFF (override Control)
Turn the control axis ① in direction of arrow by one notch; ON=↺/↻ or OFF=↻/↺. The manual control is automatically annulled by the following counteracting command of the automatic program sequence.

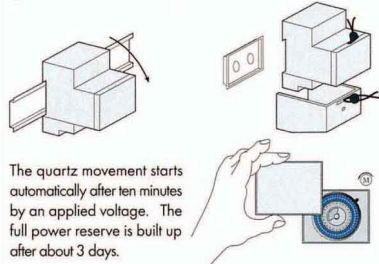
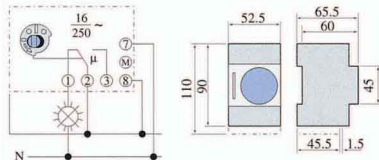
PERMANENT



Permanent Control ON/OFF
Set the hand lever ② to >>Perm<<= permanent control; turning the control axis ① in direction of arrow, the required, permanent control ON or OFF can now be adjusted. Turning the hand lever to >>Auto<<= Automatic Control, the permanent control is terminated. The actual switch position is maintained until the next counteracting command of the automatic program sequence is triggered. An immediate correction can be carried out by means of the manual control(override control).

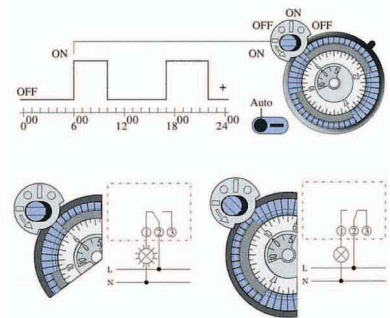
MOUNTING INSTRUCTIONS

Safety information: Electrical devices should only be connected and mounted by an electrical specialist. Manipulations and modifications on the switch will result in loss of warranty. The national specifications and applicable safety regulations must be observed.

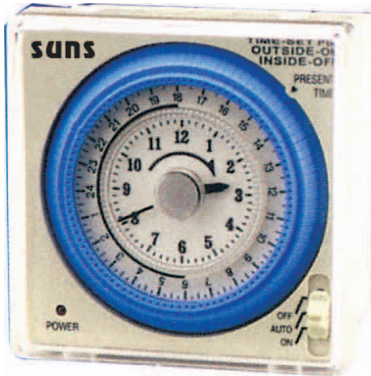


The quartz movement starts automatically after ten minutes by an applied voltage. The full power reserve is built up after about 3 days.

24H PROGRAM



24 HOURS AUTOMATIC TIME SWITCH



Model: TB-37

FEATURES

1. 15-Minute-Interval, 24-Hour Dial with Built-in (Embedded) time Set Pins
2. Direct reading clock type with minute adjust knob to set time precisely to the minute.
3. Handy ON/AUTO/OFF select switch
4. Improved load capacity
5. Attractive design

SPECIFICATIONS

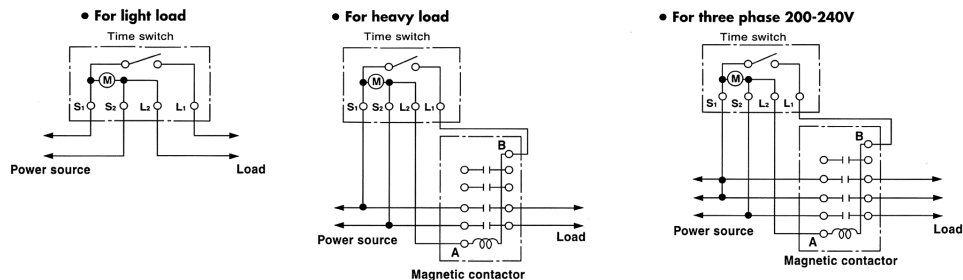
Item	Technical Data	Item	Technical Data
Model No.	TB-37	Movement type	AC-type
Rated Voltage	110V, 220V	Voltage Tolerance	85-125V; 170-240V
Frequency	50/60Hz (selectable)	Mounting Style	flush mount
Power Consumption	110VAC 1W, 220VAC 2W	Resistive Load	250AC 15A
Ambient Temperature	-10~+50°C	Lamp Load	10A
Motor Load	AC 750W, 220V AC 1500W	Inductive Load	12A(cosφ>=0.7)
Dimension	71.5x43x71.5mm	Setting Unit (min)	15 minute units
Setting Interval (min)	15 minute	NO. of ON-OFF Operations	96 operations
Net Weight	190g		

CAUTIONS

1. To set the correct time, turn the dial in the direction of the arrow (clockwise) and set the present time
2. Please observe the rated voltage and voltage tolerance of the time switches for adequate use.
3. If the load capacity exceeds the rating, an electromagnetic switch is required.
4. Do not use the time switch where:
 - . the ambient temperature goes below -10°C or above +50°C
 - . there is much dust or moisture
 - . outdoors or where it will be exposed to rain or water
 - . there is much vibration

WIRING CONNECTION DIAGRAM

When the time switch is used for loads exceeding the rated capacity, it is imperative that the time switch be used in combination with one or more magnetic contractors according to each load.



When the time switch is used with a heater, it is imperative that the load circuit be protected by a thermo-switch.

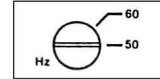
TIME SWITCH

Model: TB-17

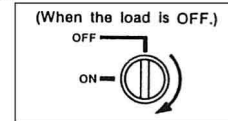
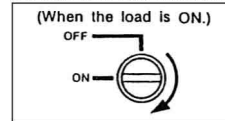


OPERATION INSTRUCTIONS

Before operating this set, please adjust the selector located at the front left side of the body to the adequate frequency.



- (1) Set the time-setting pins at the desired times
Push the time-setting pins onto the dial position indicating the selected time.
To turn the load on, use a red pin.
To turn the load off, use a white pin.
Push the time-setting pin firmly into place.
- (2) Set the present time
Turn the dial to the right in the direction of the arrow until the present time position on the dial is aligned with present time arrow.
- (3) Set the manual ON-OFF switch
Turn the manual ON-OFF switch to the right in the direction of the arrow to turn the load ON or OFF

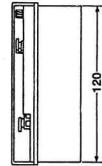
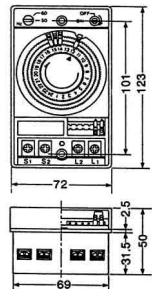
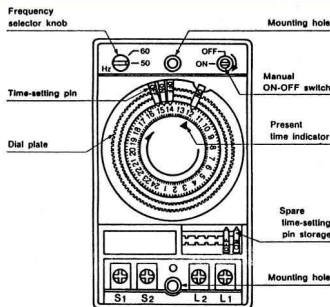


- When the load circuit continues ON or OFF for a long time, please operate manual ON-OFF switch after you have removed all time-setting pins.
- When the time -setting pin is within 1 hour of the present time, the manual ON-OFF switch should not be turned.

SPECIFICATIONS

Item	Technical Data	Item	Technical Data
Model NO.	TB-17	Movement type	AC-type
Rated Voltage	110V,200-220V, 240V	Voltage Tolerance	85~120V , 170~240V 220-260V
Frequency	50/60Hz (selection type)	Power Consumption	1.5W
Time precision	Same as AC frequency	Weight	270g
Ambient Temperature	-10°C~+50°C	Resistive Load	250VAC 15A
Lamp Load	100V AC 1500W 200V AC 3000W	Inductive Load	10A(cosφ =0.7 or more)
Motor Load	110V AC 750W, 220V AC 1500W	Minimum Setting Unit	15 minute units
Minimum Setting Interval	30 minute	NO. of ON-OFF Operations	Standard 6 operations Maximum,48operations are possible

CAUTIONS



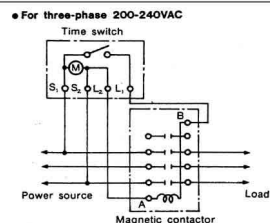
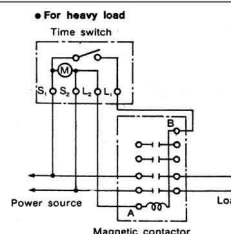
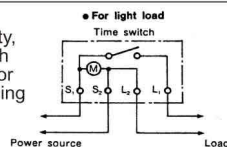
1. To set the correct time, turn the dial in the direction of the arrow (clockwise) and set the present time
2. Please observe the rated voltage and voltage tolerance of the time switches for adequate use.
3. If the load capacity exceeds the rating, an electromagnetic switch is required.
4. Do not use the time switch where:
 - . the ambient temperature goes below -10* or above +50*
 - . there is much dust
 - . there is much moisture
 - . outdoors or where it will be exposed to rain or water
 - . there is much vibration
5. Do not forget to set to the correct time in case of lost time due to the suspension of electric current

REMOVING THE COVER
Pull out the cover pressing both side.



WIRING CONNECTION DIAGRAM

When the time switch is used for loads exceeding the rated capacity, it is imperative that the time switch be used in combination with one or more magnetic contactors according to each load.



When the time switch is used with a heater, it is imperative that the load circuit be protected by a thermo-switch.

NON POWER FAILURE 24 HOURS TIME SWITCH



Model: TB-370

FEATURES

- Back up battery for 150 hours when power failure (just for clock running, not for output ON/OFF switching)
- Direct reading clock type with minute adjust knob to set time precisely to
- the minute 15-Minute-Interval, 24-Hour Dial with Built-in (Embedded) time Set Pins

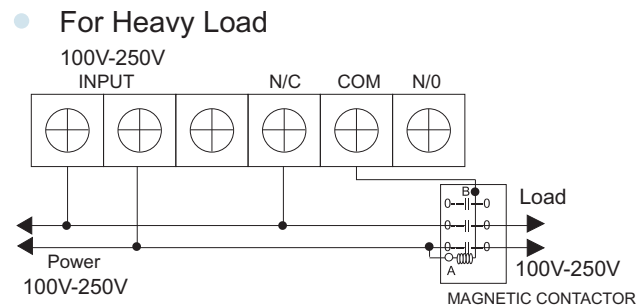
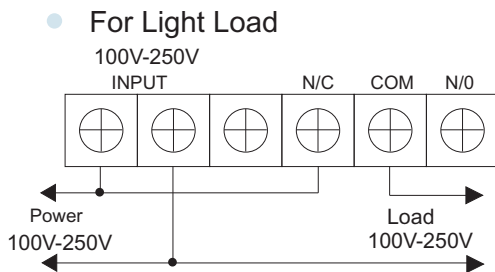
SPECIFICATIONS

Item	Technical Data	Item	Technical Data
Model NO.	TB-370	Movement type	AC-type
Rated Voltage	100-250V	Voltage Tolerance	85-264V
Frequency	50/60Hz Common Use	Movement	Quartz
Power Consumption	110VAC 1W, 220VAC 2W	Back up Power	150 Hours
Ambient Temperature	-10~50°C	Resistive Load	250AC 15A
Lamp Load	10A	Inductive Load	12A(cosφ>=0.7)
Motor Load	AC 750W, 220V AC 1500W	Setting Unit (min)	15 minute units
Setting Interval (min)	15 minute	NO. of ON-OFF Operations	96 operations
Net Weight	180g		

CAUTIONS

1. To set the correct time, turn the dial in the direction of the arrow (clockwise) and set the present time
2. Please observe the rated voltage and voltage tolerance of the time switches for adequate use.
3. If the load capacity exceeds the rating, an electromagnetic switch is required.
4. Do not use the time switch where:
 - the ambient temperature goes below -10°C or above +50°C
 - there is much dust or moisture
 - outdoors or where it will be exposed to rain or water
 - there is much vibration

WIRING CONNECTION DIAGRAM



NON POWER FAILURE 24 HOURS TIME SWITCH

Model: TD66W



- Offering 6 On/Off programmable setting available to switch inside contracts to be closed or opened whenever on each day or week day or weekend separately
- Press day key to select the day of week various choice for 10: (1) MO (2) TU (3) WED (4) TH(5)FR(6)SAT(7)SUN(8)SAT+SUN (9)Monday through Friday(10)whole week
- Back up battery for 2 years when power failure

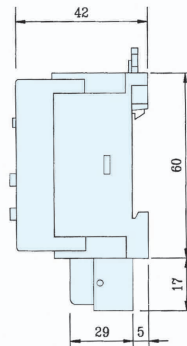
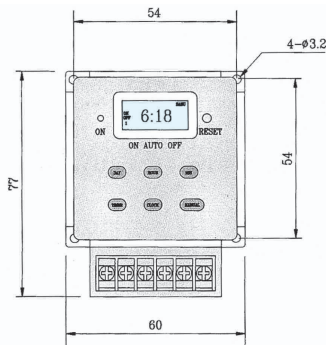
Specifications

Rated Voltage: AC 100-250V
 Frequency: 50/60Hz
 Contact Rating: AC 250V 5A, AC 120V 7A
 Mounting Style: flush mounting
 Back up power: 2 year
 (just for clock running not for output on/off switching)

Cautions

- On/Off setting should be in sequence of On 1, Off1, On 2, Off 2, On 3, Off 3, On 4, Off 4, On 5, Off 5, On 6, Off 6 clockwise and logicity
- If the load capacity exceeds the rating an electromagentic switch is required.
- Please observe the rated voltage and voltage tolerance of the time switch for adequate use.

Dimensions



WIRING CONNECTION DIAGRAM

