

**TIMEGUARD®**

24 Hour  
General Purpose  
Mechanical  
Time Switch  
Model: NTT05

Installation & Operating Instructions



# 1. General Information

These instructions should be read carefully and retained for further reference and maintenance.

## 2. Safety

- Before installation or maintenance, ensure the mains supply to the time switch is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- It is recommended that a qualified electrician is consulted or used for the installation of this time switch and install in accordance with the current IEE wiring and Building Regulations.
- Check that the total load on the circuit including when this time switch is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.

## 3. Technical Specifications

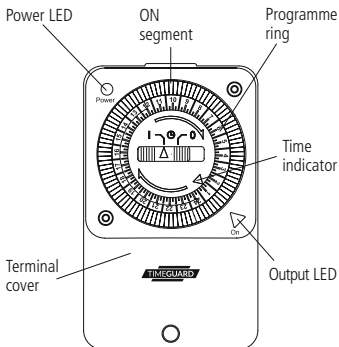
- 230V AC 50 Hz
- This time switch is of class I construction and must be earthed
- Switch Rating: 16A Resistive (3.68kW)  
Immersion Heaters  
750W Incandescent,  
Halogen & Fluorescent  
lighting  
100W Compact  
fluorescent lighting  
100W LED Lighting.

The LED switching capabilities of this product can be increased to 200W by the addition of the Timeguard ZV900 Automatic switch load controller – sold separately.

- Switch Type: Micro Switch
- Voltage free contact if wire link is removed
- Contact Type: Normally Open and Normally Closed
- Manual Override: Permanent ON or OFF
- Power Status LED Indicator: Red
- Output LED Indicator: Green
- 24 Hour Time period: Up to 48 programmes per day
- Operating Temperature: 0°C to +40°C
- CE Approved

#### Notes

- Not suitable for use with Discharge Lighting.
- The NTT05 is supplied with a wire link in place. This should not be removed unless voltage free contacts are required. If the wire link is removed then the output light will no longer function.



### Time control segments:

1 segment = 15 minutes,  
push segment down  
for ON, pull up for OFF.

### Control switch:

1 = permanently ON,  
Timer symbol =  
timed  
control,  
0 = permanently OFF.

## 4. Installation

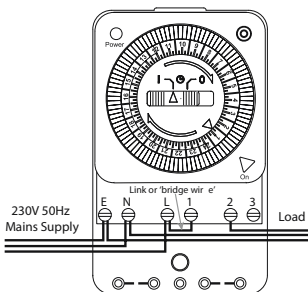
- Ensure the mains supply is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- Remove the terminal cover by undoing the fixing screw on the bottom of the time switch.
- Mark the position of the top wall mounting screw. Drill out the top mounting hole taking care to avoid any joists, electrical cables or water/gas pipes that may be hidden beneath the surface. Insert the rawl plug into the hole.
- Fix the top mounting screw and leave 2.5mm proud off of the wall.
- Place the key hole in the top of the product, over the screw head, and slide down.
- Mark the position of the lower mounting hole on the wall using the wall plate as a template.
- Remove the product and drill out the lower mounting hole again taking care to avoid any joists, electrical cables or water/gas pipes that may be hidden beneath the surface. Insert the rawl plug into the hole.
- The 230V 50Hz supply and load cables can enter through the rear knock outs or the front cable entry ports provided. If the rear knock outs are being used, remove the blanking plates and pass the supply and load cables through the holes.

- Place the key hole in the top of the product again, over the screw head, and slide down.
- Secure the unit to the wall using the lower mounting screw.
- If the wiring is through the front cable entry ports, use the cable clamps provided to secure the supply and load cables.
- Terminate the supply and load cables to the terminal block ensuring correct polarity is observed and that all bare conductors are sleeved. Please note the connections are marked beneath the terminal block (see section 5. Connection Diagram)
- Secure the terminal cover back into place using the fixing screw.

## 5. Connection Diagram


- The terminals are marked as follows on the bottom of the wall plate;

### 230V Mains Voltage Switching




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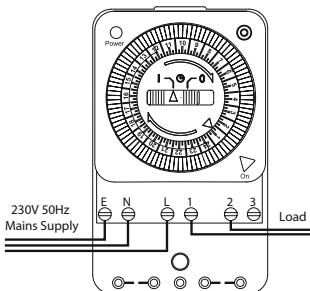
#### 230V 50Hz Mains Supply

Live (Brown or Red) to	L
Neutral (Blue or Black) to	N
Earth (Green/Yellow) to	

#### Load


Switch Live (Brown or Red) to either;	
Normally Open to mains voltage appliance e.g. Immersion Heater	2
Normally CLOSED to mains voltage appliance e.g. Fan	3
Leave the 'Link' or 'Bridge' wire between	L & 1
Neutral (Blue or Black) to	N
Earth (Green/Yellow) to	

## Voltage Free Switching – e.g. 24V circuit



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### 230V 50Hz Mains Supply

Live (Brown or Red) to	L
Neutral (Blue or Black) to	N
Earth (Green/Yellow) to	

### Load

Remove the 'Link' or 'Bridge' from between	L & 1
Live input (for voltage free output) to	1
Switch Live (for low voltage appliance) to either;	
Normally Open to mains voltage appliance e.g. Immersion Heater	2
Normally CLOSED to mains voltage appliance e.g. Fan	3



## 6. Operation

- Decide what times you would like the time switch to switch ON and OFF.
- Push the segments down for the duration of an ON period.
- Pull the segments up for the duration of an OFF period.
- The minimum switching interval is 15 minutes, and this can be increased in 15 minute steps.
- Set the correct time of day by rotating the dial clockwise until the correct time is indicated by the triangular pointer.

### Points to note;

- As the dial is rotated there will be an increased resistance to turning as ON/OFF periods are passed.
- The segment dial can be turned whilst the time controller is operating.
- In the case of a power failure, re-adjust the time controller to the correct time of day by turning the dial in a clockwise direction until the correct time is indicated by the pointer.

## 7. Permanent Override

- The main slider on the timer can be set to permanent ON by sliding it to the left. This will align the arrow head to the 1 symbol, and the green flag will now be fully visible on the right.
- For normal automatic mode, the main slider can be set to the middle position with the arrow head pointing at the timer symbol.
- The main slider on the timer can be set to permanent OFF by sliding it to the right. This will align the arrow head to the 0 symbol, and the red flag will now be fully visible on the left.



If you experience problems, do not immediately  
return the unit to the store.

Telephone the Timeguard Customer Helpline:

HELPLINE  
**01582 544 548**

or email [helpline@timeguard.com](mailto:helpline@timeguard.com)

Qualified Customer Support Coordinators will be online  
to assist in resolving your query.



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