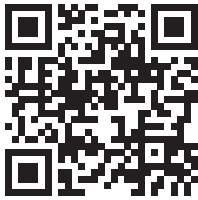


HNS446TM OWNER'S MANUAL



Scan our QR code with your phone to go directly to our website for technical information



**3-WIRE
SUITABLE FOR
FANS, MOTORS
OR IRON CORE
BALLASTS**

1. FEATURES

- Suits Clipsal Saturn™ style wall plates
- Supports Timer and Untimed ON modes of operation
- Blue LED indicates device status
- User programmable time-out period
- Programmable in 1 minute increments from 1 to 30 minutes
- When ON - Quick tap turns power OFF
- Quick LED indicator flashing within 10 seconds of time out provides expiry warning
- Retains setting even after loss of power
- Compatible with a wide range of load types including wire wound transformers and fan motors
- Remote switch compatible
- Time set to 30 minutes out of the box

2. OPERATING CONDITIONS

- Operating Voltage: 220 – 240Va.c. 50Hz
- Operating Temperature: 0 to +50°C
- Certified Standards: CISPR15, AS/NZS 3100
- Maximum Load: 1200W / 500VA⁽¹⁾
- Maximum Current Capacity: 5A

Note: Operation at temperature, voltage or load outside of the above specifications may cause permanent damage to the unit. Upon interruption and reapplication of the mains power supply, the power will automatically turn ON in timer mode.

3. LOAD COMPATIBILITY

Incandescent / 240V Halogen		✓
Fluorescent Tube with electronic ballast		✓
Compact Fluorescent Lamps ⁽²⁾		✓
Electronic Transformer		✓
LED		✓
Wirewound Transformer		✓
Fan Motors		✓
Fluorescent Tube with iron core ballast		✓

⁽¹⁾ Check the manufacturer's recommendation when putting lamps in parallel.

Note: Please go to CABAC's website to see a complete list of tested compatible lamps under "Technical Data".

Saturn™ is a registered trademark of Schneider Electric (Australia) Pty Ltd.

Note: This manual was correct at the time of manufacture. For the latest version of the manual and any technical or safety updates refer to the website:- cabac.com.au, cabac.co.nz or scan the QR code with a mobile phone.

4. INSTALLATION INSTRUCTIONS

The HNS446TM is to be installed as part of a fixed wire electrical installation. By law such installations must be made by an electrical contractor or similarly qualified person. Avoid excessive force on terminal block during installation.

4.1 WIRING

- Disconnect power at the circuit breaker before any electrical work.
- Install the HNS446TM as per wiring diagram in Figure 1 or 2 below.
- Remove the old switch from the back of the wall plate. The silver ring and button remain in place.
- Attach the HNS446TM to the back of wall plate as per Figure 3.
- Affix Instruction Sticker behind wall plate.
- Reconnect power at the circuit breaker and affix the Solid State Device Warning Sticker at switchboard.

Note: The HNS446TM is designed for indoor use. It is not rated for outdoor installation, If the unit is loose in the plate, the wall plate should be replaced. The wire strip length is 6.5mm.

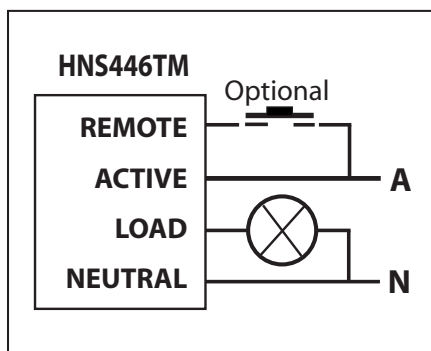


Figure 1

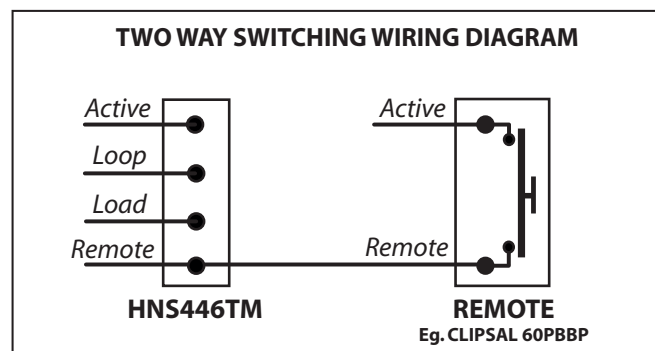


Figure 2

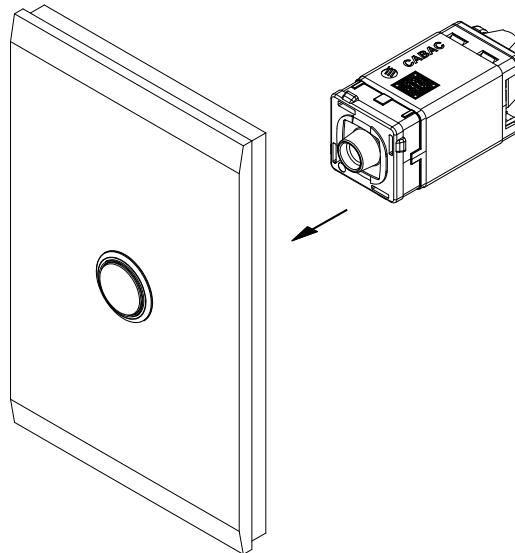


Figure 3

4.1 REMOTE SWITCH

- The remote switch must be normally open, 240Vac, momentary switch. Eg. CLIPSAL 60PBBP
- Remote wiring should not exceed 50m.
- Holding the remote switch for over 2 seconds will cause the HNS446TM to restart the timer delay function.
- Multiple remote buttons can be wired in parallel, provided total cable length does not exceed 50m.
- The HNS446TM timer cannot be set to indefinitely ON using the remote switch.
- The HNS446TM cannot be programmed using the remote switch.

5. OPERATING INSTRUCTIONS

The HNS446TM employs a soft touch switch operation. While the power is OFF there are two modes of operation that can be entered.

5.1 TIMER

- A quick tap of the button (local or remote) will turn the power ON.
- The LED indicator will flash indicating the number of hours the power will be ON before being automatically turned OFF.
- The LED indicator will blink every 5 seconds to indicate that Timer mode is operating.
- During the last 10 seconds of operation, the LED indicator will flash indicating imminent time out.
- Any time during operation, the button (local or remote) may be given another quick tap to cancel the timer and turn the power OFF.

5.2 NO TIMER

- A two seconds press of the button will turn the power ON.
- The LED indicator will be ON while the button is held in and turn OFF after 2 seconds. After the LED indicator has been extinguished, release the button.
- The LED indicator will turn back ON and stay ON indicating that the power is ON. In this case, there is no timeout period and power will stay ON indefinitely.
- Any time during operation, the button (local or remote) may be given a quick tap to turn the power OFF.

NOTE: When replacing a lamp or when powering up the first time, the unit will be automatically turned ON in timer mode. The power will turn OFF after the time-out period has expired or alternatively the time-out period may be cancelled with a quick tap of the button.

6. PROGRAMMING INSTRUCTIONS

- Programming mode may be entered at any time by pushing and holding the button down for 10 seconds. The LED indicator will flash quickly to indicate that programming mode has been entered.
- To program, press the button between 1 and 30 times according to the desired delay in minutes. For example, 10 presses will result in a delay of 10 minutes. More than 30 presses will result in a delay time of 30 minutes being stored.
- Programming mode expires 10 seconds after the last button press. At this time the new delay is stored in memory. If no button presses were detected the delay time will be unchanged.
- It is only possible to enter programming mode from the local button.

7. IMPORTANT SAFETY WARNINGS

7.1 LOAD RELACEMENT

It should be assumed that even when OFF, mains voltage will still be present at the load fitting. Mains power should therefore be disconnected at the circuit breaker before replacing faulty loads.

7.2 INSTALLATION

The HNS446TM is to be installed as part of a fixed wire electrical installation. By law such installations must be made by an electrical contractor or similarly qualified person.

7.3 LOW READING DURING INSULATION BREAKDOWN TEST

The HNS446TM is a solid state device. Therefore a low reading maybe be observed when conducting insulation breakdown testing on the circuit.

7.4 CLEANING

Clean only with a damp cloth. Do not use abrasives or chemicals.

8. TROUBLESHOOTING

8.1 POWER DOES NOT TURN ON WHEN THE BUTTON IS PRESSED

- Ensure that the circuit has power by checking the circuit breaker.
- Check the load in another circuit to ensure it is working.
- Check for a short circuit (call an electrician). The internal, non-servicable protection fuse may have blown and if so, the HNS446TM may be damaged and should be replaced.

8.2 POWER DOES NOT TURN OFF WHEN THE BUTTON IS PRESSED

- If the LED indicator is ON, check to see if it blinks every 5 seconds. Check that the button on the main unit is not being held down by dirt or grime behind the switch as this may cause the unit to be stuck in untimed ON mode. If this fails to resolve the problem, cycle the power at the circuit breaker.
- If the LED indicator is OFF and if applicable, check that the remote push button is not stuck ON. If not the HNS446TM may be damaged and should be replaced.

8.3 POWER DOES NOT TIME-OUT

- Check that the remote push button is not stuck ON.
- Check that the unit is not in untimed ON mode.
- Wait for 30 minutes to ensure that the timer is not programmed to an unexpected time. 30 minutes is the maximum possible time that can be programmed.

9. WARRANTY AND DISCLAIMER

CABAC warrant the product against manufacturing and material defect from the date of invoice to the initial purchaser for a period of 12 months. During the warranty period CABAC will replace products that prove to be defective where the product has been correctly installed and maintained and operated within the specifications defined in the product data sheet and where the product is not subject to mechanical damage or chemical attack. The warranty is also conditional on the unit being installed by a licensed electrical contractor. No other warranty is expressed or implied.

CABAC shall not be liable for any direct, indirect, incidental or consequential damages.