

TIMEGUARD®

IP65 Time Delay Switch

Model: DS3HDN



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 delay 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 delay 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 delay 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 (4kW)
 - Filament Lamps 4kW
 - Fluorescent 4kW
 - Low Voltage 20-200W
 - LED Lighting 150W

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

- Boost Timing Range: 2, 5, 10, 30, 60, 90, 120, 180 minutes
- Illuminated Push Button: Blue LED
- Operating Temperature: -10°C to +40°C
- IP Rating: IP65
- CE Compliant
- Dimensions (H x W x D): 94 x 94 x 57mm

Note: Not suitable for use with Discharge Lighting

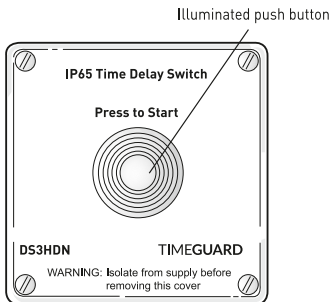


Figure 1 – front panel of DS3HDN

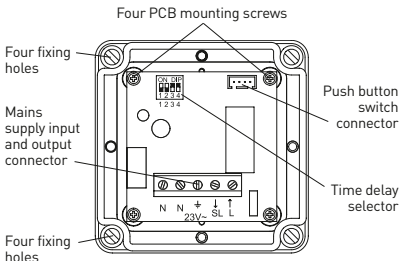


Figure 2 – internal of DS3HDN

4. Installation

- Note: The installation of this electronic switch should be protected by a suitable fuse or breaker of up to 16A rating.
- Ensure that the mains supply to the circuit breaker is switched off and the circuit supply fuses are removed or the circuit breaker turned OFF.
- Remove the front panel by unscrewing the four fixing screws.
- If necessary, carefully remove the printed circuit board (PCB) by undoing the four PCB mounting screws.
- Remove the cable knockouts at (preferably) the bottom of the box.
- Use the appropriate IP65 rated entry conduits to fit the M20 knockouts. Ensure they are tightly fitted to maintain the IP rating.
- Mark the position of the fitting holes using the surface mount box as a template. Drill out the mounting holes taking care to avoid any joists, electrical cables or water/gas pipes that may be hidden beneath the surface. Insert the rawl plugs into the holes.

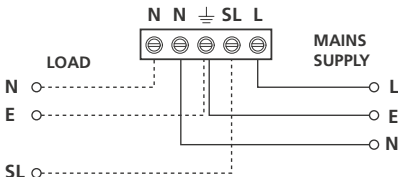
- Fix the surface mount box rigidly to a secure surface by using the appropriate screws through the four fixing holes.
- If necessary, carefully refit the PCB back into the surface mount box by progressively tightening each of the four PCB mounting screws in turn.

Do not over tighten the screws.

- Pass the 230V 50Hz mains supply and load cables through the cable conduits on the surface mount box.
- Terminate the cables into the terminal block ensuring correct polarity is observed and that all bare conductors are sleeved (See section 5. Connection Diagram).
- Secure the front panel back into place using the four fixing screws previously removed.

5. Connection Diagram

The connector terminals are marked as follows;



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Wiring as marked on terminals – left to right

Neutral Load to appliance (Blue or Black) to **N**

Neutral Supply (Blue or Black) to **N**

Earth (Green/Yellow) to **⏏**

Switch Live Load to appliance
(Brown or Red) to **SL**

Live Supply (Brown or Red) to **L**

6. Internal Delay Selection Switches

- There are four internal DIL switches available to select 8 time delay settings as shown below;

Note: On the DIL switch, switch 1 is not in use.



Time (minutes)	Switch 4	Switch 3	Switch 2
2	L	L	L
5	L	L	R
10	L	R	L
30	L	R	R
60	R	L	L
90	R	L	R
120	R	R	L
180	R	R	R

Left = ON

Right = OFF

- Select your desired time delay period and set the DIL to the relevant positions using the above chart.

7. Operation

There is a single blue LED illuminated push button switch on the front panel. When pressed, the DS3HDN will function as follows;

- The blue LED will turn OFF.
- The externally connected load will turn ON for the pre-selected time delay.
- One minute before the end of the time delay, the blue LED will flash, indicating the time delay is due to expire.
- At the end of the time delay, the externally connected load will switch OFF from the mains supply.
- The blue LED will switch permanently ON until the push button is pressed again.
- If the button is pressed while the time delay is still running, the delay will be terminated after 1 minute.
- If the push button is pressed within the last minute of the time delay (when the blue light is flashing) the countdown will be reset and the timer will restart the time delay.

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

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



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