

NAVAGO TWILIGHT SWITCH

DESCRIPTION:

All outdoor lamps are normally operated during night. Some lamps like advertising board lighting are switched ON at dusk and are switched OFF after certain duration of time.

NAVAGO has developed a dedicated automation device using a microprocessor-based design and an infrared sensor for the sensing. It also has an inbuilt digital timer.

The switch can be connected to a load of 16 Amps directly at 230V Ac.

DESIGN AND CONSTRUCTION:

The Twilight Switch consists of a circuit housed in a molded Plastic case sealed to IP54 standards (Tested by CPRI Bangalore) with built in surge suppressors, an infrared sensor and a microprocessor driven digital clock.

Features:

- The unit confirms to IP54 standards for Outdoor use.
- Automatic switching ON at dusk
- Switching OFF at Dawn or adjustable
- Immunity to dust bird sittings cloud cover etc.
- No seasonal setting.

Various models of Navago Twilight Switch

Type NE-8:

In this model the lights are switched ON once the light level falls below 30 Lux and Switches OFF the lights when the Lux level falls above 20 Lux (Dusk to dawn option).

There is also an option for switching OFF the lights certain duration of time (1 to 5 Hrs or 2 to 8 hrs). This option is useful if you do not require the light to be ON for the entire night example advertising hoardings sign boards etc.

The switch can be connected to a load of 3Kw directly. For loads greater than 3Kw the output of the switch can be connected to the coil of a suitable contactor.

Type NE-8 Dusk to Dawn:

This model is useful when you require the lights to be ON for the entire night. In this model there is no option of switching OFF after certain duration of time.

The switch can be connected to a load of 3Kw directly. For loads greater than 3Kw the output of the switch can be connected to the coil of a suitable contactor.

Type NE-8D:

This model is useful when 2 circuits have to be controlled using a single switch.

The switch has 2 outputs 1st output by default is from dusk to dawn and the 2nd output can be programmed to switch OFF after certain duration of time (1 to 5 hrs.) or up to dawn.

The switch can be connected to a load of 1Kw each circuit directly. For loads greater than 1Kw the output of the switch can be connected to the coil of a suitable contactor one for each circuit.

Advantages of Twilight Switch over a Timer

Timer	Twilight Switch
The timer switches ON the lights at a fixed time immaterial of the light condition at that particular time	The Twilight Switches ON the light when the light level falls below 30 Lux immaterial of the time.
The timer has to be reset as per the seasonal variations.	The Twilight Switch automatically adjusts according to the season.
In mechanical timers there is a time lag in case of power failures or interruption.	The Twilight Switch has an in built rechargeable battery that retains memory the various settings like time etc.

Operation of the Switch:

The switch is designed for easy operation to the user.

When supply is given to the Switch by default the Up to Dawn LED will glow. If the output is OFF the Lamp OFF LED will glow. The switch will now work for the full night (it will switch ON at dusk when the light level falls below 30 Lux and switch OFF when the Lux level falls above 20 Lux)

Pressing the 'SELECT' button will change the setting. The glowing of the LED is the indication of the setting. In case high voltage the high voltage cut OFF led will glow and the output will be cut off. In case of overload the Lamp OFF and Lamp ON LED will start blinking and the output will be cut off.

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