

# W by AUTOSWITCHER

- It is automatic
- It saves electricity
- It needs no maintenance
- It is unaffected by changes in sunset and sunrise timings
- It needs no battery
- It has no moving parts
- It can switch off excess load at desired time further saving electricity
- It is short circuit and overload protected. Hence no extra fuses required (AS2202)
- It is economical. It recovers its own cost in less than a year.
- Unconditional warranty.

AS 2000 DR

TWILIGHT CONTROLLERS

AUTOSWITCHER  
SERIES 2000



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**AUTOSWITCHER** is a twilight controller. Any twilight controller has a photosensitive device which senses the change in ambient light level (ALL) in Lux. At sunset, when ALL is low, it gives a command to switch on the lights and after sunrise to switch off.

**AUTOSWITCHER**, though basically a twilight controller has many more interesting and useful features to make it unique in several ways.

It has time delay facility to switch on and off the load. When ALL is low, it does not switch on the lights instantly but takes 3 to 7 minutes to do so. The same delay is provided for switching off, too. This helps in avoiding erratic working of switching at the time off temporary darkness in cloudy weather, lightening or flashes of lights etc.. It is observed that at some places/streets, traffic is negligible after midnight ( or, for advertisements, neon displays are not required after midnight). For such requirements, we have type 200x series in which provision is made to automatically switch off one phase or two phases after a desired time (normally 3 to 7 hours typically). This will save precious electricity everyday. In some versions, MCBs of rated capacity are provided for each phase independently. All models come with independent photo sensor assembly in a weather-proof, dust protected ABS moulding which is to be installed outside to sense ALL. It is electrically isolated from the mains with absolutely no shock hazards.

## AS 2000DR

### SPECIFICATIONS:

Mains Input : 230VAC/50 Hz  
 Output : Potential free contacts, 5A/230VAC or 2A/415VAC

Switching Device : Mini Relay

Control Action : Dusk to Dawn

Switching Delay : 5 Min (Typ) for both on and off action

Dimensions : 95x95x50 (mm)

Weight : 300 gms

### CONTROLS (Operator Accessible):

FUNCTION switch : 3-way mini slide switch with f positions marked AUTO (for automatic operation), OFF (manual off) and ON (manual ON).

TWILIGHT set control : Adjustable with screw driver to precisely set the twilight level at which to switch on and off the load. It is factory set for 16 Lux level which is best suited for street lights control.

### INDICATIONS:

**MAINS:** Red LED to indicate mains is connected to the unit. When FUNCTION switch is in OFF position, this will be off.

**TWILIGHT:** Green LED to indicate that the desired darkness has set in. Count down of 5 Min will start and load will be on after this delay. Similarly, in the morning this LED will be off when desired light level is reached and load will be off after the delay.

**LOAD:** Red LED to indicate connected load is on.

### ADVANTAGES

#### AUTOSWITCHER

Once the ALL setting is done, normally it is factory-set for 6 to 10 Lux), it will regularly switch on and off the lights exactly as desired, not a few Lux more or less. Hence, once installed, no recalibration is needed for its entire life.

It is not worried about the time of day for its operation but exclusively the ALL, twilight level. Nor does it have any moving part. Hence, practically, it is maintenance free in operation.

It does not need any battery to count the delay time. Lapsed time is counted and stored in electrostatic devices which are non-volatile in nature for a few hours. Even if supply fails, off-delay counting will start from where it has stopped and not from zero.

### TIMER TYPES

On and Off times are to be set for control. Due to seasonal changes, sunrise and sunset times are changed. Setting is to be carried out regularly to track these changes.

Electromechanical clock is required which is a continuously moving part. Being so, it may run slow or fast resulting in erratic switching. Maintenance is required.

In electronic timers, off delay facility is provided with the help of built-in battery. Without the battery, timer is reset to zero every time mains fails. Maintenance of battery is another problem.

### OTHER RANGE OF AUTOSWITCHER

Single Phase Dual Output	AS2001
Three Phase	AS2003
Three Phase with individual MCBs	AS2004
Three Phase with dual output	AS2005
Three Phase /Dual output/ MCBs	AS2002
Single Phase Instantaneous	AS2000

**PLEASE ASK FOR THE DETAILS.**