

# Outdoor lighting automation by NATURE SWITCH 02 EC .. KW ..Ø series

**NATURE SWITCH -02 EC series offer an Intelligent Lighting Control.**

NATURE SWITCH-02 EC Series is designed for automatic control of outdoor lighting, using Space Grade Sensors and an advanced micro controller. It is useful for control of all varieties of outdoor lamps. NATURE SWITCH-02 EC series with attention free operation reduces manual costs, saves power bills and it pays for itself within a short period. NATURE SWITCH-02 EC series **is available in various models offering a solution to different load requirements.**

## SALIENT FEATURES

Automatic Switching ON at Sunset  
Automatic Switching OFF at Sunrise  
No clock settings and No time settings  
No need of seasonal resetting  
Wide operating voltage range.  
High voltage trip and auto reset.

Low voltage trip and auto reset  
MCB based over load trip  
Degree of protection conforms to IP 54  
Immunity to dust, bird sittings and clouds  
Immunity to moon and other street light  
Part night operation selection option



**NATURE SWITCH 02EC ...kW 1Ø**  
Standard ratings are **3kW/5kW/8kW**



**NATURE SWITCH 02EC ...kW 3Ø**  
Standard ratings are **5kW/8kW/18kW**

***NATURE SWITCH-02 EC is a generation ahead of astronomical clocks***  
***NATURE SWITCH-02 EC is a generation ahead of simple sensors.***  
***NATURE SWITCH-02 EC is an advanced intelligent Hybrid system.***  
***NATURE SWITCH-02 EC is a switching cum protective device.***

## **BUILT IN SEASONAL ADJUSTMENT AND NO CLOCK SETTINGS**

NATURE SWITCH-02 EC series will automatically adjust the switch ON and switch OFF times according to the seasons without the need for any resetting on account of seasonal changes.

## **SAVINGS**

1. 100% Saving of manual Switching cost.
2. Elimination of all the energy wastage due to early switch ON and late switch OFF.
3. Provides definite and reliable switching in cold, rain or heat.
4. No clock setting or corrections, hence no maintenance cost.

### GENERAL SPECIFICATIONS OF INTEGRAL UNIT:

NATURE SWITCH-02EC series is offered as a pole mountable enclosure consisting of NATURE SWITCH-02, power Contactor for load switching, MCB, and terminal blocks. The enclosure comes complete with mounting brackets, cable glands, openable door with lock and key. The enclosure is made of UV stabilized, FR grade special moulding compound to provide a rust proof, electric shock proof, termite proof, outdoor mountable electrically insulating body capable of enduring solar radiation in the outdoor. Selectable options are available for duration based switching OFF as well Override facility for maintenance.

### SPECIFICATION OF LIGHT SENSITIVE CONTROL UNIT.

- |  |   |  |
|--|---|--|
| 1. Model No.                           | : | NATURESWITCH-02                          |
| 2. Operating Voltage                   | : | 230 Vac 50 Hz $\pm$ 20%                  |
| 3. Switching Endurance                 | : | Minimum 5,000 cycles                     |
| 4. Operating Illuminance Levels        |   |  |
| I. For Switching ON                    | : | < 60 lux for >30 sec                     |
| II. For Switching OFF                  | : | >10 lux for >30 sec                      |
| 5. Auto Voltage trip levels            |   |  |
| I. High Voltage Trip/ auto reset       | : | > 280VAC /< 265 VAC                      |
| II. Low voltage Trip/ auto reset       | : | < 150 VAC/> 165 VAC                      |
| 6. Operating state indication          | : | Through LED.                             |
| 7. Duration based switching OFF option | : | 4 to 8 Hrs. With a resolution of ½ hour. |
| 8. Override options                    | : | Cont. ON and cont. OFF                   |

ENERGY SAVED  
IS  
ENERGY GENERATED

### DETAILS OF CONTACTOR\*, MCB\*\*, LIGHTING LOAD AND LOAD POINTS (Model specific as per details given below)

Model	Contactor rating(AC3)	MCB rating	No. of Phases	Max. Load	Max. Current in Amps
NATURE SWITCH - 02EC 3kW1P	16Amp	25Amp	Single	3 kW	15 Amps
NATURE SWITCH - 02EC 5kW1P	25Amp	40Amp	Single	5 kW	25 Amps
NATURE SWITCH - 02EC 8kW1P	40Amp	63Amp	Single	8 kW	40 Amps
NATURE SWITCH - 02EC 5kW3P	16Amp	20Amp	Three	5 kW	25 Amps total and Max 12 Amps on any Phase
NATURE SWITCH - 02EC 8kW3P	25Amp	32Amp	Three	8 kW	40 Amps total and Max 20 Amps on any Phase
NATURE SWITCH - 02EC18kW3P	40Amp	63Amp	Three	18 kW	90 Amps total and Max 40 Amps on any Phase

\*Contactor conforms to IEC - 60947 - 4 - 1/ IS - 13947 - 4 - 1. \*\*MCB conforms to IEC - 60898/ IS - 8828.

Custom designs for load ratings will be made available for bulk users.

### Our Satisfied Customers



AND MANY MORE

## KAKATIYA ENERGY SYSTEMS PVT LIMITED

D-2, Industrial Estate, Moula Ali, Hyderabad - 500 040.

Ph: 040 - 2724 2121 (4-Lines), Fax: 040 - 2724 2125

E-mail: mail@natureswitch.com

Website: www.natureswitch.com

An ISO 9001- 2008 & ESCO Company