

# Outdoor lighting automation by **SWADEEP 02 EC .. KW ..Ø series**

## **SWADEEP-02 EC series offer an Intelligent Lighting Control.**

Swadeep 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. Swadeep with attention free operation reduces manual costs, saves power bills and it pays for itself within a short period. Swadeep is available in various models offering a solution to different load requirements.

### **SALIENT FEATURES**

Automatic Switching ON at dusk  
Automatic Switching OFF at dawn  
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 and latch.  
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



### **SWADEEP 02EC ...kW 1Ø**

Standard ratings are **3kW/5kW/8kW**

### **SWADEEP 02EC ...kW 3Ø**

Standard ratings are **5kW/8kW/12kW**

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

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

Swadeep 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:**

SWADEEP-02EC 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	:	> 285VAC /< 270 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

**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. No. Of light points & wattage				
					400W	250W	150W	70W	40W
SWADEEP - 02EC3kW1P	16Amp	25Amp	Single	3kW	6	10	18	36	50
SWADEEP - 02EC5kW1P	25Amp	32Amp	Single	5kW	11	18	30	60	85
SWADEEP - 02EC8kW1P	40Amp	63Amp	Single	8kW	17	28	48	95	135
SWADEEP - 02EC5kW3P	16Amp	16Amp	Three	5 kW	11	18	30	60	85
SWADEEP - 02EC8kW3P	25Amp	32Amp	Three	8 kW	17	28	48	95	135
SWADEEP - 02EC12kW3P	40Amp	63Amp	Three	12 kW	25	42	72	142	200

\*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.

Mfd. In India by:

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