

SWADEEP NATURE SWITCH 03

EC DUAL 18 KW-3Ø

Switch OFF 50% of your street lighting by midnight

Nature Switch-03 EC Dual offers an intelligent and reliable lighting control

Outdoor lighting circuits consist of Street Lighting, Campus lighting and many others. While a majority of street lighting circuits need to be ON for the entire night a few of them can be operated for part of the night to save energy. While NATURE SWITCH-01 is to cater to lighting circuits which are ON for the entire night from Sunset to Sunrise, NATURE SWITCH- 02 EC offered to cater to lighting circuits which are ON for a part of the night. NATURE SWITCH - 03 EC DUAL offers two outputs. One output will be ON for the entire night and the other output will operate as per the choice of the user.

This product is suitable to lighting circuits like High Masts and such similar circuits(street lighting) where a part of the load is ON for the entire night while the part of the load can be switched OFF after a few hours from SUNSET.

DISTINCT FEATURES:

- ⇒ Compatible for both single and three phase.
- ⇒ Single input and two outputs.
- ⇒ **Output 1(Full Night):** Automatic switch ON at SUNSET and switch OFF at SUNRISE
- ⇒ **Output 2(Part Night):** Automatic switch ON at SUNSET and switch OFF after 4-8 hours(selectable)
- ⇒ Wide operating voltage range 120-440 VAC for a nominal 230 VAC system
- ⇒ High/Low Voltage sense, trip and auto reset.
- ⇒ Immunity to dust, bird sittings and cloud cover.

**ENERGY SAVED
IS
ENERGY GENERATED**



OUR SATISFIED CUSTOMERS



GENERAL SPECIFICATIONS OF INTEGRAL UNIT:

Nature Switch-03 EC DUAL is offered as a pole mountable enclosure consisting of NATURE SWITCH, 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.

For Output-1, switching is based on natural light availability. Selectable options are available for duration based switching OFF for Output-2 as well Override facility for maintenance.

ELECTRICAL AND OPERATIONAL SPECIFICATIONS:

Component	Specification										
Light Sensitive Control Unit	Model No.	NATURE SWITCH 03									
	Operating Voltage	120 - 440 VAC for nominal 230 VAC , 50 Hz system									
	Switching Endurance	Minimum 5,000 cycles									
	Operating Illuminance Levels	I. For Switching ON : < 60 lux for >30 sec II. For Switching OFF : >10 lux for >30 sec									
	Auto Voltage Trip/Reset levels	I. High Voltage Trip/ auto reset :> 280VAC /< 270 VAC II. Low voltage Trip/ auto reset :< 150 VAC/>160 VAC									
	Duration based switching OFF option for Output-2	4 to 8 Hrs. With a resolution of ½ hour.									
	Override options	Continuous ON and Continuous OFF									
	Operating state indication through LED	<table border="1"> <tr> <td>Green</td> <td>Both Outputs OFF</td> </tr> <tr> <td>Amber</td> <td>Both Outputs ON</td> </tr> <tr> <td>Red</td> <td>Output-1 ON & Output-2 OFF</td> </tr> <tr> <td>Red Flashes</td> <td>High Voltage Trip</td> </tr> <tr> <td>Green Flashes</td> <td>Low Voltage Trip</td> </tr> </table>	Green	Both Outputs OFF	Amber	Both Outputs ON	Red	Output-1 ON & Output-2 OFF	Red Flashes	High Voltage Trip	Green Flashes
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Red Flashes	High Voltage Trip										
Green Flashes	Low Voltage Trip										
Contactor (2 no.s)	Two poles bridged together, each rated for 40 A AC 3 rating confirming to IS-13947-4-1/IEC 60497-4-1										
MCB (3 no.s)	Rated for 63 A, Max. BC rating of 10 kA, confirming to IS 80888-1										
Enclosure	SMC conforming to IS 13410-1992 and IP54										

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