

Introducing

SWADEEP-02EC-VMS series

Exclusively for Automatic Control of **LED Street Lights**

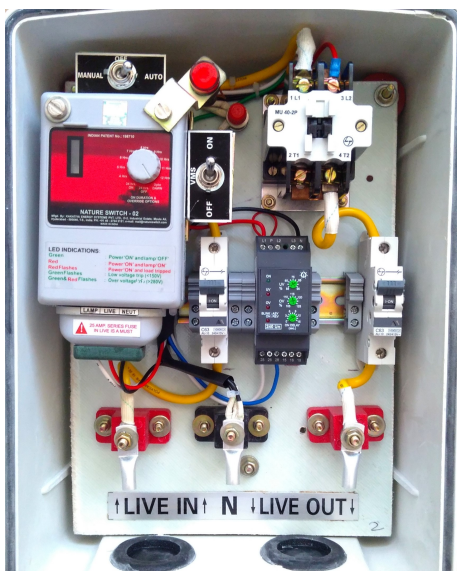
Salient Features of VMS (Voltage Monitoring Series):

- **Selectable Under/Over Voltage Trip Levels**
- **Protection against Phase Loss & Neutral Loss**
- **Protection against Phase Reversal &**
- **Phase-Phase Unbalance (10%)**
- **Voltage Sensing Principle**
- **LED Indications for Power & Fault Conditions**

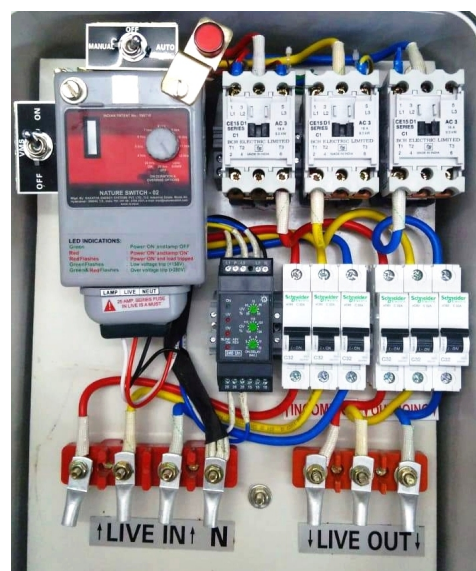
Voltage Monitoring Series



(SM500 from GIC/L&T)



Single-phase Standard Ratings:
3kW/5kW/8kW



Three-Phase Standard Ratings:
5kW/8kW/12kW

| No. of Phase | Model | Contactor Rating (AC3) | MCB Rating | Max. Total Load | Circuit Wiring (Copper) |
|--------------|-------------------------|------------------------|------------|-----------------|-------------------------|
| SINGLE PHASE | Swadeep-02EC-3kW1P-VMS | 25 Amps | 25 Amp | 3-5 kW | 10 sq.mm |
| | Swadeep-02EC-5kW1P-VMS | 40 Amps | 40Amp | 5-8 kW | 10 sq.mm |
| | Swadeep-02EC-8kW1P-VMS | 63 Amps | 63Amp | 8-10 kW | 16 sq.mm |
| THREE PHASE | Swadeep-02EC-5kW3P-VMS | 16 Amps per phs | 20Amp | 5-8 kW | 10 sq.mm |
| | Swadeep-02EC-8kW3P-VMS | 25 Amps per phs | 32Amp | 8-12 kW | 10 sq.mm |
| | Swadeep-02EC-12kW3P-VMS | 40 Amps per phs | 40Amp | 12-18 kW | 10 sq.mm |

MAKE

Nature Switch: Kakatiya Energy Systems/Bajaj/Healer Enterprises
Voltage Controlling Device: L&T (GIC) or equivalent
Contactor make: L&T/BCH/Schneider
MCB make: Schneider/Hager/L&T(Exora)/Legrand
Enclosure: Sintex or equivalent
Circuit Wiring: Polycab/Finolex

Promoted By: **HEALER ENTERPRISES, 131/13, Zone-2, M.P. Nagar, BHOPAL – 462011**
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General Specifications of Single-Phase/3-Phase Integral Unit Available as **SWADEEP-02EC-...kW...P-VMS**:


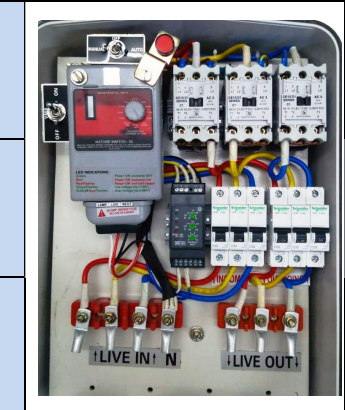
Supply & fixing of Automatic Street Light Control Switch with **Infrared Sensor based NATURE SWITCH & Voltage Monitoring System (VMS)**.

Nature Switch operation should be based on Natural Light Lux level. Required Illuminance Level for Switching ON is ≤ 60 Lux and for switching OFF ≥ 10 Lux. The Sensor should also have part night operation facility of min. 4 to max. 12 hrs.

VMS should have Adjustable Over & Under Voltage Trip level and Protection against Phase Loss, Neutral Loss & Phase Reverse.

The Sensor & VMS along with suitable Power Contactor(s) and Incoming-Outgoing MCBs should be enclosed in a pole/wall mountable Enclosure made of Rust Proof, Electric Shock Proof, Termite proof and FR grade **SMC Junction box conforming to IP54**. The circuit should also have provision for Manual Operation (i.e. By-Pass Option for both Sensor (NS-02) and VMS).

The Circuit should be suitable enough to take:

| | | |
|-----------------------|---|---|
| SINGLE - PHASE | Single-Phase load of 3kW (Swadeep-02EC-3kW1P-VMS) with: Contactor, Incoming MCB & Outgoing MCB rating of 20-25Amps & main load Circuit Wiring (Copper) of min. 10 sq.mm |  |
| | Single-Phase load of 5kW (Swadeep-02EC-5kW1P-VMS) with: Contactor, Incoming MCB & Outgoing MCB rating of 25-40 Amps & main load Circuit Wiring (Copper) of min. 10 sq.mm | |
| | Single-Phase load of 8kW (Swadeep-02EC-8kW1P-VMS) with: Contactor, Incoming MCB & Outgoing MCB rating of 40-63 Amps & main load Circuit Wiring (Copper) of min. 16 sq.mm | |
| THREE-PHASE | 3-Phase load of 5kW (Swadeep-02EC-5kW3P-VMS) with: 3 nos. Contactors, 3 nos. Incoming MCBs & 3 nos. Outgoing MCBs of 16-20 Amps each & Circuit wiring (Copper) of min.10 sq.mm |  |
| | 3-Phase load of 8kW (Swadeep-02EC-8kW3P-VMS) with: 3 nos. Contactors, 3 nos. Incoming MCBs & 3 nos. Outgoing MCBs of 20-32 Amps each & Circuit wiring (Copper) of min.10 sq.mm | |
| | 3-Phase load of 12kW (Swadeep-02EC-12kW3P-VMS) with: 3 nos. Contactors, 3 nos. Incoming MCBs & 3 nos. Outgoing MCBs of 32-40 Amps each and Circuit wiring (Copper) of min.10 sqmm. | |

Make:

| | |
|---|--------------------------------------|
| Nature Switch: | Kakatiya Energy Systems/BAJAJ/Healer |
| Voltage Control Device: | L&T (GIC) or equivalent |
| Contactors: | BCH/L&T/Schneider |
| MCBs: | Schneider/Hager/L&T(Exora) |
| SMC Enclosure: | Sintex or equivalent |
| Circuit Wiring: | Polycab/Finolex or equivalent |
| Contactor should Conform to IEC-60947-4-1 / IS-13947-4-1 and MCBs should Conform to IEC-60898 / IS-8828 | |

*The Lux is the SI derived unit of illuminance and luminous emittance, measuring luminous flux per unit area

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