

## **SPECIFICATION OF SIGN SWITCH FOR GLOW SIGN & NEON SIGNAGES**

**An automatic switch for signage lighting facilitating** automatic switch ON after sunset and switch OFF after selected duration or at sunrise.

- 1) The switch must be suitable for direct installation in single-phase AC supply.
- 2) The operation voltage range must be 150 to 300VAC. It should be able to withstand a fault voltage of upto 440 VAC.
- 3) **OPTICAL SENSOR:**
  - a) The sensor used should be reliable for calibration stability
  - b) The sensing circuit should be sealed in a container meeting IP 65
  - c) The sensor should be located behind a vertical wall to avoid accumulation of dust etc.
- 4) **OPERATIONAL SPECIFICATIONS:**

Nominal Operating Voltage	-	230VAC $\pm$ 10% 50 Hz
Maximum Lighting Load	-	3000 watts
Maximum Continuous Current	-	16A
Illuminance for Switching ON	-	<60 lux for >30 seconds
Illuminance for Switching OFF	-	>10 lux for >30 seconds
<b>Resolution for ON Duration After DUSK</b>	-	<b>2 to 6 hours with 1/2 hour steps.</b>
- 5) **AUTO OVER/LOW VOLTAGE TRIP AND RESET (  $\pm$  1% TOLERANCE):**

Auto over voltage trip	-	> 280 VAC
Auto Over voltage Reset	-	< 265 VAC
Auto Low Voltage Trip	-	< 150 VAC
Auto Low Voltage Reset	-	> 165 VAC
- 6) The switch must have an endurance of at least 5,000 cycles at full rated load
- 7) The switch must perform in an ambient temperature range of  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- 8) The switch must perform in open air with RH upto 95% at  $25^{\circ}\text{C}$
- 9) It must meet the drop and topple test from a height of 3 feet on any side at least for 5 Drops.