

# TWILIGHT SWITCHES

**ELECTRO-Med** offers a solid state photo electric switch which activates with respect to the ambient light. The device as its name suggests, switches ON and OFF at dusk and dawn. The operating intensity can be set by a simple control provided on the panel.

Installation of this device results in substantial power saving besides providing automatic switching. High reliability components are used throughout to ensure a high MTBF.



## APPLICATIONS

The device finds wide applications in the industrial and commercial fields like street lighting in towns, ship yards, railway yards, Industrial campus, runway-lighting etc.

The device can also be adapted to control any industrial process based on photoelectric principle.

## OPERATING PRINCIPLE

The Twilight Switch incorporates a solid state photo sensitive device - the light dependent resistor (LDR), which produces an electrical signal corresponding to the ambient light. This signal is used to drive a relay, which in turn switches the load ON or OFF. A built in time delay prevents nuisance switching due to momentary flashes or darkness.

## ENCLOSURES

The enclosures (for outdoor installation) are made of thick sheet steel and are adequately treated to make them weather proof. They have inbuilt locking arrangements. All connections/controls are accessible conveniently. Units with 5 Amps capacity are available in ABS plastic moulded enclosures.

Contact rating	5,10, 25 Amps.	10, 16, 32 and 63 amps	100 Amps
No. of poles	Two	Three	Three
Switching Element	Electromagnetic Relay	Electromagnetic Contactor	Electromagnetic Contactor
Over load Protection	Not provided	by Miniature Circuit breakers	By HRC fuses

- OPTIONS**
1. Electronic contactless relay for load handling
  2. Fuses/Miniature circuit breakers on the load side.

Due to continuous development, the specifications, layout, dimensions etc. are liable to change without notice to suit the latest state of the art.

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