

# RAKSHA HEADLAMP RELAY

## THE FINAL REVOLUTION

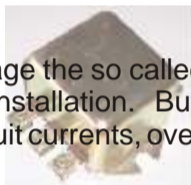
Automotive headlamp switching is one of the challenging tasks. For many decades automobiles used a simple mechanical switch operated manually to shift the head lamp beam. These switches are designed for smaller wattage of Head lamps.



The appearance of combination switches have added comfort to the manual operation but they made the use of a separate relay almost a necessity.



Gradually the Electro Mechanical relays have entered into the scene. These Electro mechanical relays are more robust and have handled the higher wattage lamps. But the fact that these relays are also based on a coil and a moving contact made their life limited leading to frequent unpleasant repair and replacement. The inevitable contact bouncing of these relays lead to stress on the lamp resulting in early failure. Even installing them on the newer versions of automobiles has also proved to be a tough task.



At this stage the so called 'Electronic relays' have entered into the scene with complete wiring harness for easy installation. But, the most challenging tasks of offering millions of switching cycles, enduring short circuit currents, over loads etc. Could not be addressed by these relays also.

**This is the genesis for the birth of 'RAKSHA HEAD LAMP RELAY' the most revolutionary, unique and ultimate solution based on state of the art technology for the finest service. RAKSHA HEAD LAMP RELAY comes with complete wiring harness suitable for any four wheeler offering all the needed protections and millions of switching cycles using solid state technology for the first time in the head lamp switching**

### OPERATIONAL FEATURES

- FUSE FREE solid state head lamp relay for Automobiles
- Universal model compatible to head lamp circuit of any four wheeler.
- Single model for 12 Volts DC and 24 Volts DC systems.
- Single model for Low side and High side switching circuits
- Can support head lamp load of up to 300 Watts.
- Specially designed for use with RAKSHA AUTO DIPPER.**



### PROTECTIVE FEATURES

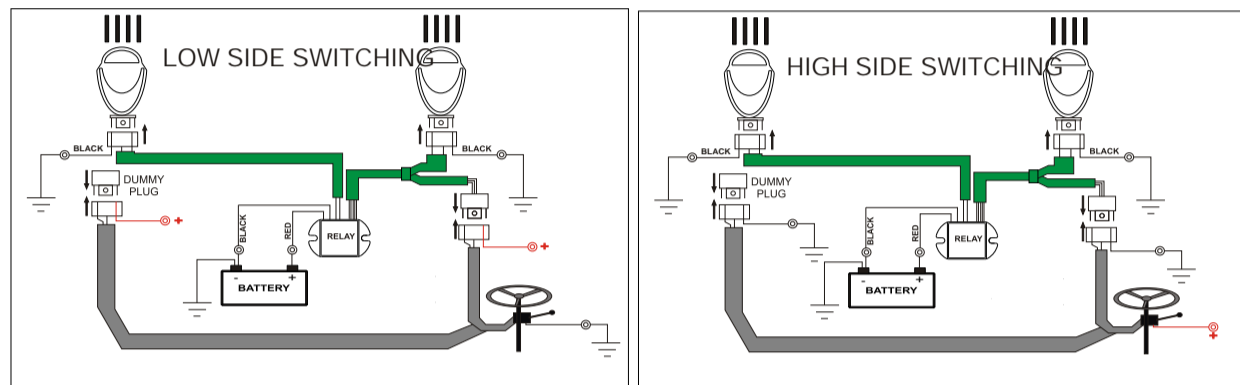
- Automatic trip and auto reset for short circuits
- Automatic trip and auto reset for over load
- Automatic trip and auto reset for over temperature
- Automatic trip and auto reset for over voltage



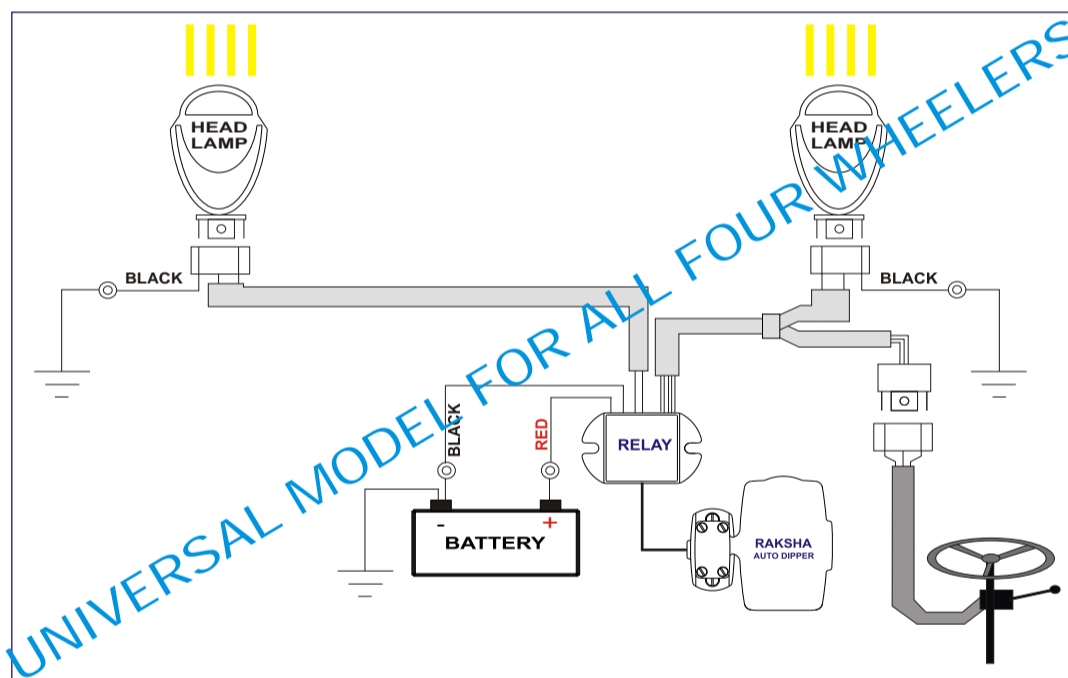
### NOVEL FEATURES

- Arc free switching
- No moving parts
- Fast Turn ON & Turn OFF
- Absolutely free from fuse
- Automatic beam failure detection and switch over to alternate beam

## ELECTRICAL INSTALLATION of RAKSHA HEADLAMP RELAY



## INTEGRATION of RAKSHA HEADLAMP RELAY AND AUTO DIPPER



Mfd. In India by:  
**KAKATIYA ENERGY SYSTEMS LIMITED**  
3-6-272, 3rd Floor, N.V.K. Towers, Himayat Nagar,  
HYDERABAD - 500 029  
Ph: 040 - 2326 2540, Fax: 040 - 2326 2550  
E-mail: mail@naureswitch.com  
web site: www.natureswitch.com