

In today's busy world, the rate of accidents are tremendously increasing. The studies have found that 40% of accidents happen during night and the major reason for the occurrence of accidents that happen during night is the glare that results from the high beam intensity headlight that vehicles put on. The high beam headlight is actually meant for illuminated vision during night rides where there are no other vehicles nearby and the low beams are meant for a clear path any time during night even when there are vehicles around. The high beam intensity headlight painfully blinds the driver and creates heavy glare which makes vision impossible. That is, even if the driver couldn't change the beam intensity as and when required, the sensor in the vehicle automatically understands when is it required to change the intensity and alters accordingly. In this way whenever two vehicle approaches to each other, the beam intensity of both the vehicles becomes dim simultaneously which helps for better driving anytime. The circuit consists of a package of programmable Arduino, a PIR Sensor, power source, LDR and the supporting headlight. Whenever there encounters any presence of light above 1 candela of light intensity on the sensor the resistance of LDR decreases which eventually decreases the voltage across LDR. In this way the sensor in the controller circuit senses the presence of any intensity of light and turns the high intensity headlight automatically to low intensity beam. PIR which is typically a motion sensor senses the motion of vehicles that passes from at a distance of 50 meters.