



SCHAFFLER

www.schaffler.com

HEADLIGHT CONTROLLER

Input: 74V OR 110V DC (nominal)
Output: 68V (high), 48V (medium), 32V (low)
Power: 800W or 1600W



Key features:

- *Small, light-weight*
- *Reliable*
- *Efficient*
- *Shock and Vibration tested*
- *Adjustable output*

Many locomotives use the old method of connecting large resistors (example right) in series with headlights to reduce the brightness for low beam operation. This has two major drawbacks: inefficiency and unreliability. The system is inefficient because the resistors simply waste power by dissipating it as heat. The system is unreliable because the resistors burn out and need to be replaced.



The SCHAFFLER Headlight Controller is a small, efficient unit for controlling power to locomotive headlights. Two 350W globes are provided with 68V for high beam or 32V for low beam. These output voltages can be adjusted to specific requirements where non-standard globes are used. The input to the unit is at battery voltage so it can accommodate a range from 58V to 82V for 74V batteries or 90V to 132V for 110V batteries.

The Headlight Controller weighs only 500g and is only 26cm long. The unit can thus be mounted in tight spaces including behind the headlights or inside a dashboard.

Timing option

The SCHAFFLER Headlight Controller can also be used to control headlights, ditch lights or other lights that require timed flashing in coordination with the train horn. For example, in some applications it is a requirement that ditch lights flash once per second for 15 seconds whenever the horn is blown. The Headlight Controller can perform this function.

Blown Globe Detection

The SCHAFFLER Headlight Controller detects and alarms when a globe has blown and needs replacement.

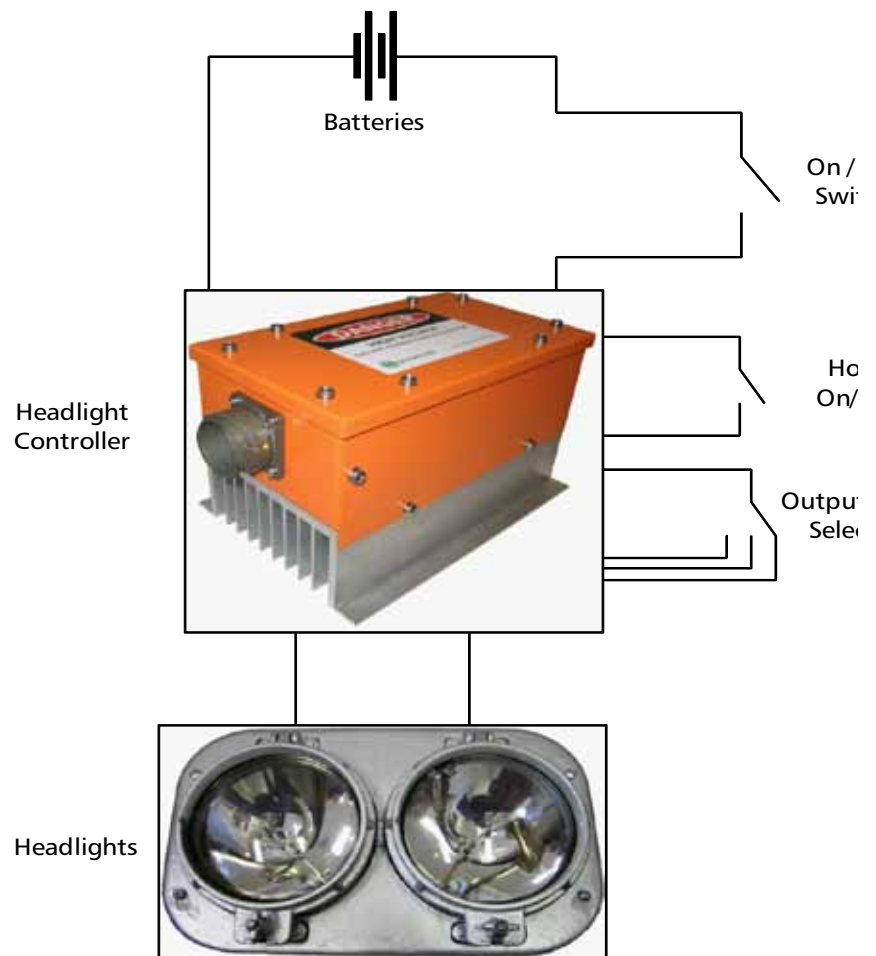
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Headlight Controller	
Input voltage	74V DC or 110V DC (nominal)
Output voltage	68V for high beam, 32V for low beam (standard) Other voltages may be specified to order.
Output power	800W (self ventilated) or 1600W (force ventilated)
Output regulation	±2%
Operating Temperature	Up to 55°C
Enclosure	Fitted on heatsink and enclosed
Connections	Military-style plug
Protection	Over temperature Over current Reverse connection Short circuit
Dimensions	250mm (L) x 154mm (W) x 136mm (H)
Weight	500g



Standards	
EN 50155	Electronic equipment used on rolling stock
IEC 1287-1	Power converters installed on board rolling stock
EN 50121-3-2	Electromagnetic Compatibility
IEC 61000-4-3	EMC standard
IEC 61373	Railway application rolling stock equipment: Shock and vibration testing
BRB/RIA-12	British Rail Standard for transients and surges
AS 3000	Wiring regulations



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