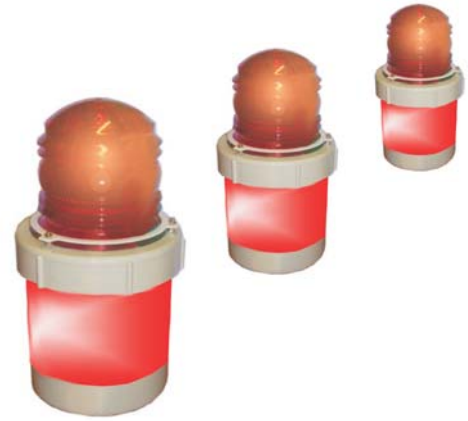


"HI-VIS" LED Lighting System Overview

LED airfield lighting using AC series current

Designed to meet requirements of: CASA MOS Part 139 Chapter 9 (Portable Lighting)
 FAA AC150/4653-50A
 ICAO Annex 14 Vol 1

*Made in Australia*

THE WSSAVIATION HI-VIS SYSTEM IS MADE FOR AIRFIELD OWNERS AND OPERATORS WHOSE CRITICAL REQUIREMENTS ARE HIGH VISIBILITY, LOW-COST, LONG-TERM RELIABILITY AND EASY MAINTENANCE

Whats Different?

The unique HI-VIS design encompasses:

- > High light output LED technology
- > Retro-reflective outer shell
- > Series current loop electrical feed
- > Low power consumption
- > Ability to use centralised solar power

Advantages

- > Easy to see under all conditions
- > Low purchase and running cost
- > Simple wiring scheme and installation
- > Easy maintenance options
- > Low voltage operation does not require cable to be deep buried (or conduit)

How it Works

The HI-VIS LED lighting system works on the same principal as the runway lighting installed at all major airports, where a single electrical cable is used to connect a group (circuit) of lights to a special power supply.

The lights are connected in a "daisy-chain" manner (in series) and the current flowing through the first light passes through all other lights on its way around the loop and back to the power supply.

The power supply controls (regulates) the series current in the circuit and does not allow large variations to occur. This ensures that all lights can be the same brightness.

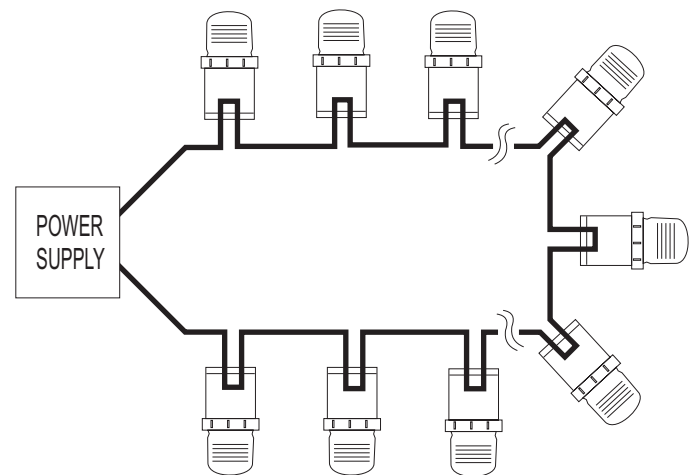
The main difference with the HI-VIS LED system is that no current transformers are used to isolate each light. Instead to LED is driven by the primary current and the circuit is protected against LED failure by other special devices inside each light.

Options

- > Different LED colours
- > Pilot Activation
- > Mains, diesel or solar power supplies
- > Interleaved wiring scheme
- > Local monitoring panel
- > Remote monitoring and testing

Installation Considerations

- > Above ground (elevated) only
- > Requires mounting on stake
- > Cable should be buried to protect from physical damage (minimum 100mm)
- > Cable should be rated for direct burial
- > Typical spacing between lights = 90m
- > Max 36 lights per circuit



Typical HI-VIS LED circuit