

short form data

Z-LED edge lighting module

Z-LED series



L/70 at 22K hrs: 22,000 hours to 70% of initial light output backed by a 5-year warranty means dependable, high quality LED lighting modules for the sign maker

Description

Z-LED 7 is a high lighting power LED linear system which is particularly effective for double-sided internally illuminated sign boxes, flex-face signs, totems and monoliths.

Comprising high quality and efficient Cree LEDs combined with specially designed lens; these modules produce 30% more light per Watt than other similar looking products.

Available in three and five LED versions, these weatherproof modules are suitable for interior and exterior use and are designed to be arranged along the long edge of a sign box to produce a uniformly lit appearance on the substrate or flex-face skin from a controlled 10° x 40° flat but wide angle beam.



Edge lighting can be a very economical method of lighting sign boxes

- High Brightness and efficiency (100 lumens per Watt Z7005XBD Natural White)
- Three white colour temperatures available (Natural White is standard)
- Two lengths available (3 and 5 LEDs)
- Weatherproof module with flying leads for interior or exterior use
- Safe, low power operation (24V DC)
- 5 years or 22,000 hours whichever occurs first

Applications

Edge lighting: one edge lit in single-sided boxes up to 1 metre high and double-sided boxes up to 0.8 metre high. Two edges lit in single-sided boxes up to 2.5 metres high and double-sided boxes up to 2 metres high. See design guide, over.

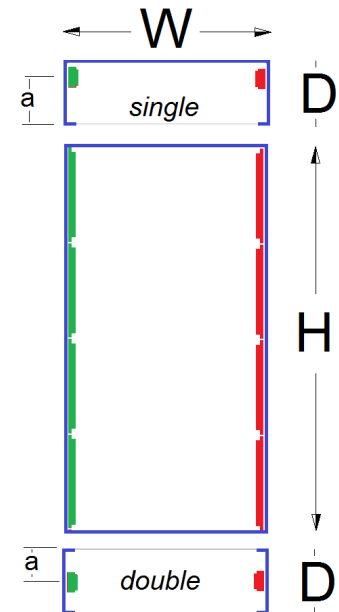
Compliance

IP65 RoHS CE

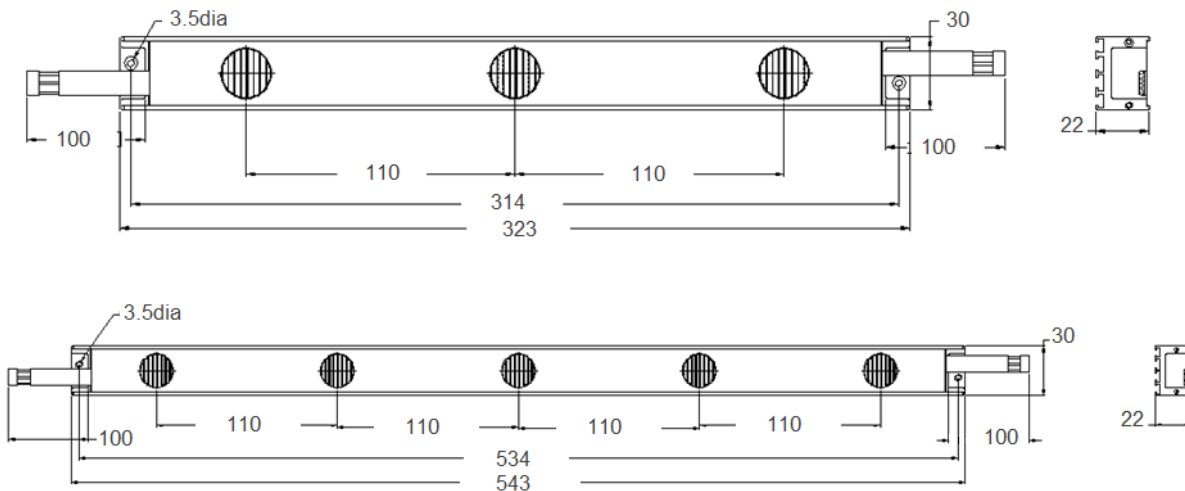
Design Guide

Sign box edge lighting with Z-LED: One edge lit in single sided boxes up to 1 metre high and double-sided boxes up to 0.8 metre high. Two edges lit in single-sided boxes up to 2.5 metres high and double-sided boxes up to 2 metres high.

Depth of box	Single Sided Box	
	Min 90 to max 300 (internal)	W = up to 1000: one edge lit
	a = 70mm from lit face. For number of modules divide H by length of Z-LED module	
Depth of box	Double Sided Box	
	Min 140 to max 300 (internal)	W = up to 800 one edge lit
	a = half of D. For number of modules divide H by length of Z-LED module	



Dimensions



Specifications

Optical and electrical data typical @ ta 25°C +/-2° @ 24V | Ambient operating temp. range -25 to 60°C

Part No.	Z7003XBD Natural White	Z7005XBD Natural White
Input Voltage	24VDC (range 22.8 to 25.2)	
Operating Current	0.283A (Max.)	0.458A (Max.)
Power Consumption	6.8W (Max.)	11.0W (Max.)
Dimensions	323(L) x 30(W) x 22(H)	543(L) x 30(W) x 22(H)
Beam Angle	10 x 40°	
Luminous Flux	660lm	1100lm
Colour Temperature	6500K (+/- 500K)	
Max number of Modules in Series	Up to 100W	

* L/70 lumen depreciation is accelerated when operating temperature range is exceeded. See full data sheet for more information



Our Design Guide is for reference only and the ideal appearance should be checked with a lit trial | Dimensions in millimetres | Data subject to our Terms and Conditions and are liable to change without notice | E&OE | © Oshino Sept 2020

